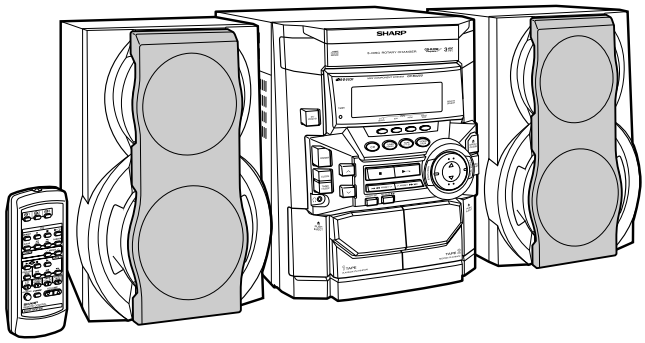
SHARP SERVICE MANUAL

No. S4126CDBA250H



MINI COMPONENT SYSTEM

MODEL CD-BA250H

CD-BA250H Mini Component System consisting of CD-BA250H (main unit) and CP-BA250H (speaker system).

MINI COMPONENT SYSTEM

MODEL CD-BA2600H

CD-BA2600H Mini Component System consisting of CD-BA2600H (main unit) and CP-BA2600H (speaker system).

- **Note for users in U.K.**
  Recording and playback of any material may require consent which SHARP is unable to give. Please refer particularly to the provisions of Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1956, the Performers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

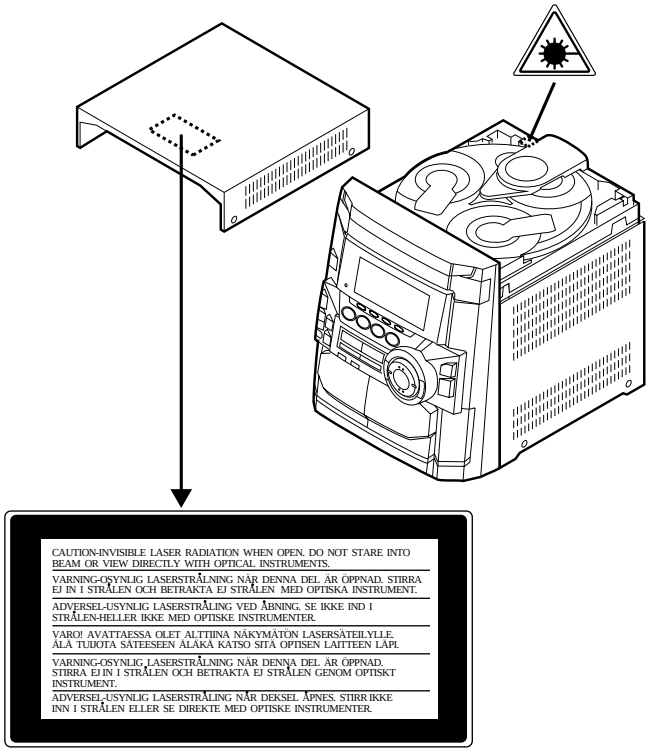
SAFETY PRECAUTION FOR SERVICE MANUAL

Precaution to be taken when replacing and servicing the Laser Pickup.

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class 1 Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

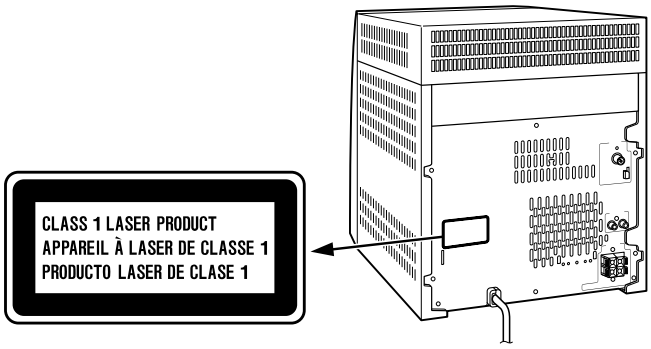
(1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
(2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
(3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
(4) Under no circumstances look directly into the Pickup Lens at any time.
(5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW

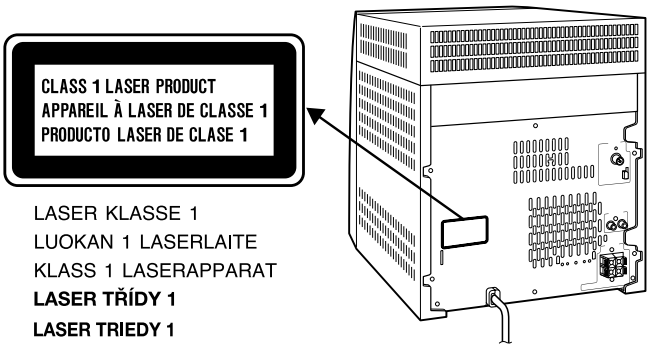

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.
VARO! AVATTAESSA OLET ALTTIINA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING - OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS. KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.



(CD-BA250H for U.K. only)

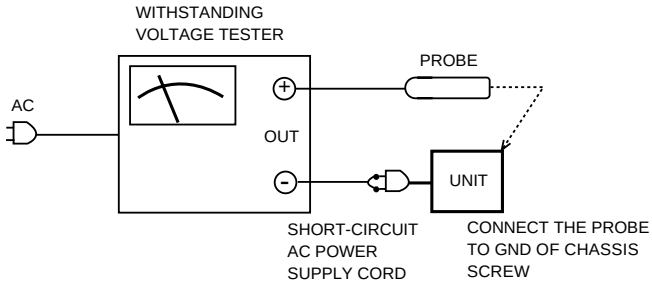


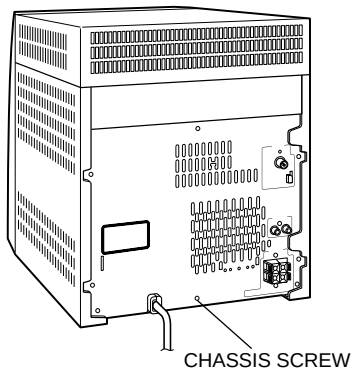
(Except for U.K.)

IMPORTANT SERVICE NOTES (CD-BA250H FOR U.K. ONLY)

Before returning the unit to the customer after completion of a repair or adjustment it is necessary for the following withstand voltage test to be applied to ensure the unit is safe for the customer to use.
Setting of Withstanding Voltage Tester and set.

Set name	set value
Withstanding Voltage Tester	
Test voltage	4,240 VPEAK 3,000 VRMS
Set time	6 secs
Set current (Cutoff current)	4 mA
Unit	
Judgment	
OK: The “GOOD” lamp lights. NG: The “NG” lamp lights and the buzzer sounds.	





SPECIFICATIONS

CD-BA250H/CD-BA2600H

■ General

Power source	AC 230 V, 50 Hz
Power consumption	Power on: 124 W Power stand-by: 0.6 W (*)
Dimensions	Width: 270 mm (10-5/8") Height: 330 mm (13") Depth: 340 mm (13-3/8")
Weight	6.7 kg (14.7 lbs.)

(*) This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode. cancel the demonstration mode.

■ Amplifier (CD-BA250H for U.K.)

Output power	RMS: 150 W (75 W + 75 W) (10 % T.H.D.) RMS: 104 W (52 W + 52 W) (0.9 % T.H.D.)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 kohms

■ Amplifier (Except for U.K.)

Output power	PMPO: 480 W MPO: 240 W (120 W + 120 W) (DIN 45 324) RMS: 150 W (75 W + 75 W) (DIN 45 324) RMS: 104 W (52 W + 52 W) (DIN 45 500)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 kohms

■ CD player

Type	3-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 87.5 - 108 MHz AM: 522 - 1,620 kHz

■ Cassette deck (CD-BA250H for U.K.)

Frequency response	50 - 14,000 Hz (Normal tape)
Signal/noise ratio	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter	0.3 % (WRMS)

■ Cassette deck (Except for U.K.)

Frequency response	50 - 14,000 Hz (Normal tape)
Signal/noise ratio	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter	0.35 % (DIN 45 511)

CP-BA250H/CP-BA2600H

Type	2-way type speaker system 5 cm (2") Tweeter 13 cm (5-1/4") Woofer
Maximum input power	150 W
Rated input power	75 W
Impedance	6 ohms
Dimensions	Width: 220 mm (8-11/16") Height: 330 mm (13") Depth: 217 mm (8-9/16")
Weight	3.0 kg (6.6 lbs.)/each

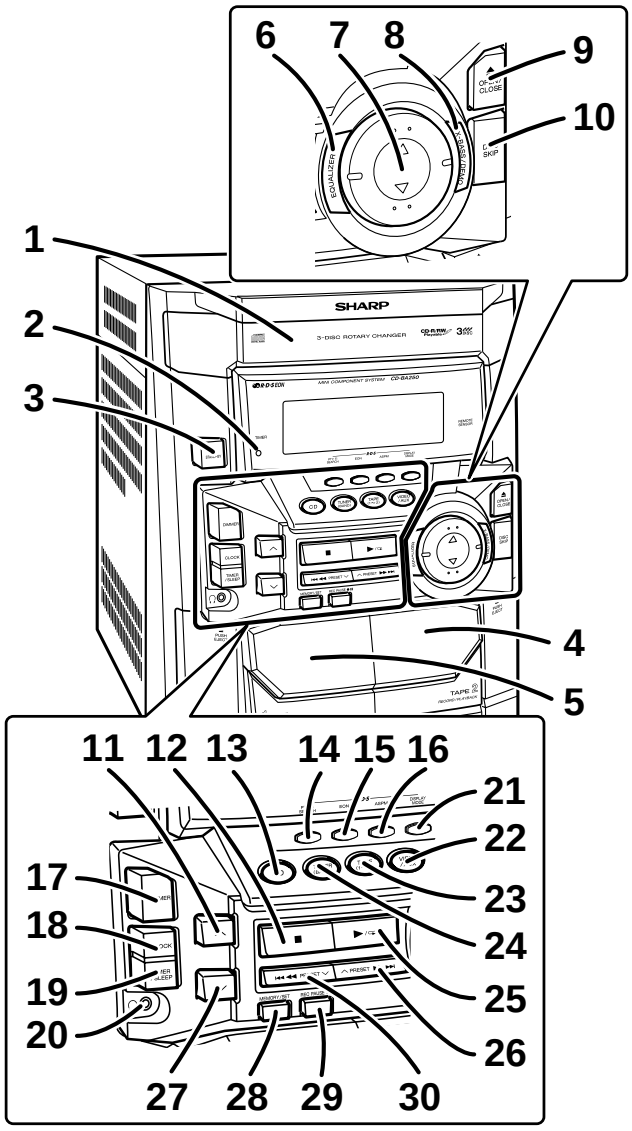
Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

CD-BA250H/CD-BA2600H

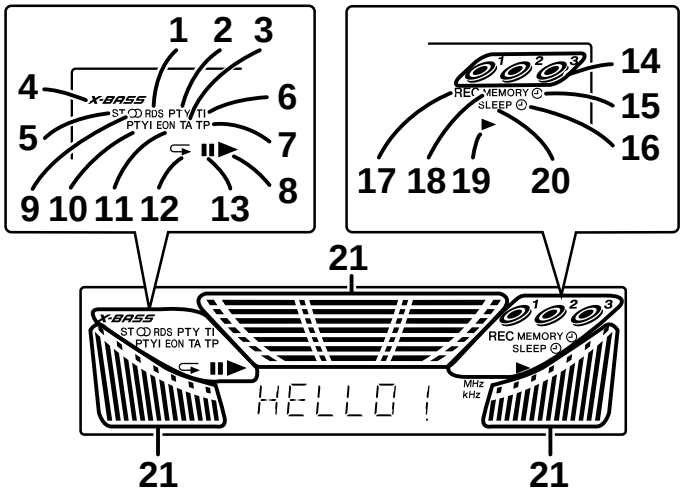
Front panel

1. Disc Tray
2. Timer Set Indicator
3. On/Stand-by Button
4. Tape 2 Cassette Compartment
5. Tape 1 Cassette Compartment
6. Equalizer Mode Select Button
7. Volume Up and Down Buttons
8. Extra Bass/Demo Mode Button
9. Disc Tray Open/Close Button
10. Disc Skip Button
11. Tuning and Time Up Button
12. CD or Tape Stop Button
13. CD Button
14. RDS Programme Type/Traffic Information Search Button
15. RDS EON Button
16. RDS ASPM (Auto Station Programme Memory) Button
17. Dimmer Button
18. Clock Button
19. Timer/Sleep Button
20. Headphone Socket
21. RDS Display Mode Selector Button
22. Video/Auxiliary Button
23. Tape (1 ⇀ 2) Button
24. Tuner (Band) Button
25. CD Play or Repeat, Tape Play Button
26. CD Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up Button
27. Tuning and Time Down Button
28. Memory/Set Button
29. Tape 2 Record Pause Button
30. CD Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down Button



Display

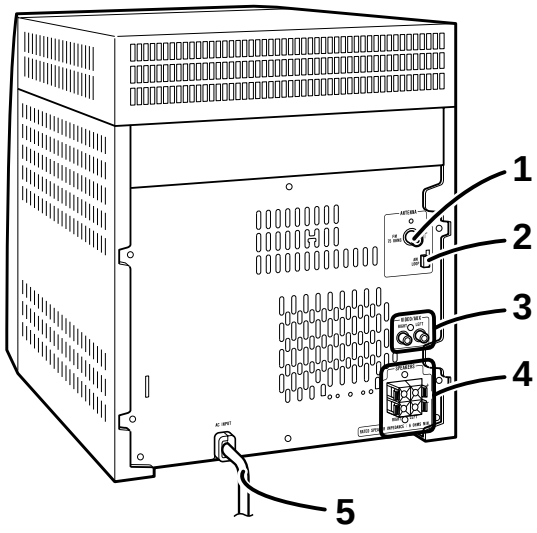
1. RDS Indicator
2. Programme Type Indicator
3. Traffic Announcement Indicator
4. Extra Bass Indicator
5. FM Stereo Mode Indicator
6. Traffic Information Indicator
7. Traffic Programme Indicator
8. CD Play Indicator
9. FM Stereo Receiving Indicator
10. Dynamic PTY Indicator
11. EON Indicator
12. CD Repeat Play Indicator
13. CD Pause Indicator
14. Disc Number Indicators
15. Timer Play Indicator
16. Timer Recording Indicator
17. Tape 2 Record Indicator
18. Memory Indicator
19. Tape Play Indicator
20. Sleep Indicator
21. Spectrum Analyser/Volume Level Indicator



CD-BA250H/CD-BA2600H

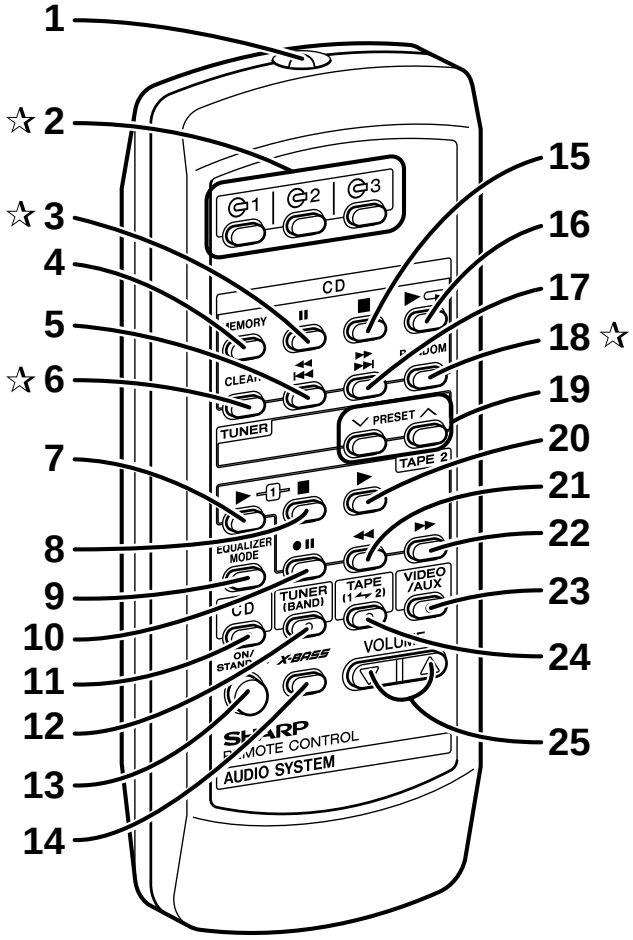
■ Rear panel

1. FM 75 Ohms Aerial Sock
2. AM Loop Aerial Socket
3. Video/Auxiliary (Audio Signal) Input Sockets
4. Speaker Terminals
5. AC Power Lead



■ Remote control

1. Remote Control Transmitter
2. Disc Number Select Buttons
3. CD Pause Button
4. CD Memory Button
5. CD Track Down or Fast Reverse Button
6. CD Clear Button
7. Tape 1 Play Button
8. Tape 1/Tape 2 Stop Button
9. Equalizer Mode Select Button
10. Tape 2 Record Pause Button
11. CD Button
12. Tuner (Band) Button
13. On/Stand-by Button
14. Extra Bass Button
15. CD Stop Button
16. CD Play or Repeat Button
17. CD Track Up or Fast Forward Button
18. CD Random Button
19. Tuner Preset Up and Down Buttons
20. Tape 2 Play Button
21. Tape 2 Rewind Button
22. Tape 2 Fast Forward Button
23. Video/Auxiliary Button
24. Tape (1 ↔ 2) Button
25. Volume Up and Down Buttons

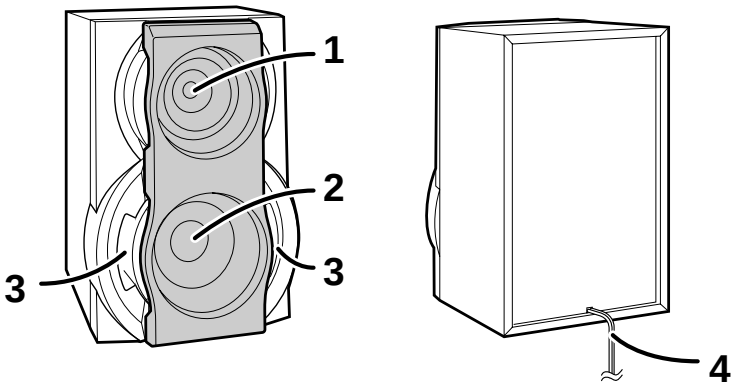


Buttons with "☆" mark in the illustration can be operated on the remote control only.
Other buttons can be operated both on the main unit and the remote control.

CP-BA250H/CP-BA2600H

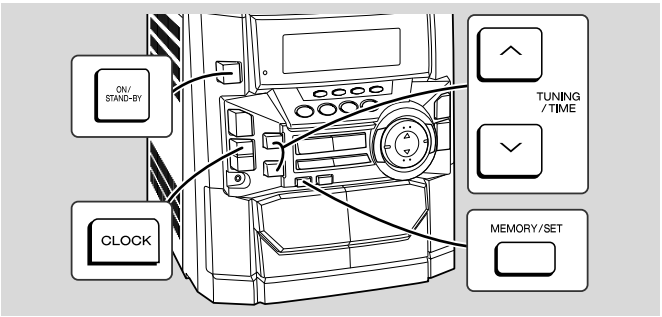
Speaker system

1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire



OPERATION MANUAL

Setting the Clock



In this example, the clock is set for the 24-hour (0:00) display.

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the CLOCK button and within 5 seconds, press the MEMORY/SET button.**

3 **Press the TUNING/TIME (∨or ∧) button to select 24-hour or 12-hour display and then press the MEMORY/SET button.**

"0:00" → The 24-hour display will appear.
(0:00 - 23:59)

"AM 12:00" → The 12-hour display will appear.
(AM 12:00 - PM 11:59)

"AM 0:00" → The 12-hour display will appear.
(AM 0:00 - PM 11:59)

Note that this can only be set when the unit is first installed or it has been reset. (Refer to step 3 under "If trouble occurs")

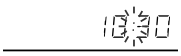
4 **Press the TUNING/TIME (∨or ∧) button to adjust the hour and then press the MEMORY/SET button.**

- Press the TUNING/TIME (∨or ∧) button once to advance the time by 1 hour. Holdit down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

5 **Press the TUNING/TIME (∨or ∧) button to adjust the minutes and then press the MEMORY/SET button.**

- Press the TUNING/TIME (∨or ∧) button once to advance the time by 1 minute. Hold it down to change the time in 5-minute intervals.
- The hour will not advance even if minutes advance from "59" to "00".
- The clock begins counting from "0" seconds. (Seconds are not displayed.)
- The time display will disappear after a few seconds.

To confirm the time display:
Press the CLOCK button.
The time display will appear for about 5 seconds.



Note:
The "CLOCK" or time will flash at the push of the CLOCK button when the AC power supply is restored after a power failure or unplugging the unit.
Readjust the clock as follows.

To readjust the clock:
Perform "Setting the Clock" from the beginning. If the time display is flashing, step 3 (for selecting the 24-hour or 12-hour display) will be skipped.

To change the 24-hour or 12-hour display:

1 Clear all the programmed contents. [Perform to step 3 under "If trouble occurs"
2 Perform "Setting the Clock" from the beginning.

Troubleshooting Chart

Many potential "problems" can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
● The clock is not on time.	● Did a power failure occur? Reset the clock.
● When a button is pressed, the unit does not respond.	● Set this unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it. Refer to step 3 under "If trouble occurs"
● No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected?

■ CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or is not performed properly.	● Is the disc loaded upside down? ● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

■ Tuner

Symptom	Possible cause
● Radio makes unusual noise consecutively.	● Is the unit placed near the TV or computer? ● Is the FM aerial or AM loop aerial placed properly? Move the AC power lead away from the aerial if located near.

■ Cassette deck

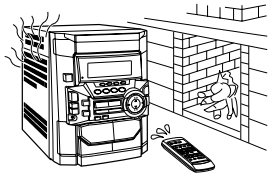
Symptom	Possible cause
● Cannot record.	● Is the erase-prevention tab removed?
● Cannot record tracks with proper sound quality. ● Cannot erase completely.	● Is it a normal tape? (You cannot record on ametal or CrO_2 tape.)
● Sound skipping. ● Cannot hear treble. ● Sound fluctuation.	● Is there any slack? ● Is the tape stretched? ● Are the capstans, pinch rollers, or heads dirty?
● Cannot remove the tape.	● If a power failure occurs during playback, the heads remain engaged with the tape. Do not open the compartment forcibly. Wait until electricity resumes.

■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity respected? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pick-up, tape heads, etc.) or on the transmitter on the remote control.
Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.



Troubleshooting Chart

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

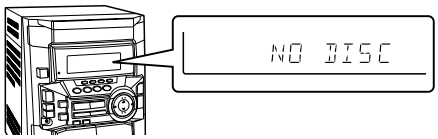
If such a problem occurs, do the following:

1 **Set the unit to the stand-by mode and turn the power on again.**
2 **If the unit is not restored in step 1, unplug and plug in the unit, and then turn the power on.**
3 **If neither step 1 nor 2 restores the unit, do the following:**
① Press the ON/STAND-BY button to enter the power stand-by mode.
② Whilst pressing down the ► / ⊂ button and the X-BASS/DEMO button, press the ON/STAND-BY button until "CLEAR AL" appears.

Caution:
This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

■ Before transporting the unit

1 **Press the ON/STAND-BY button to turn the power on.**
2 **Press the CD button.**
3 **Press the ≜ OPEN/CLOSE button to open the disc tray.**
Remove all CDs inserted in the unit.
4 **Press the ≜ OPEN/CLOSE button to close the disc tray.**
Make sure that "NO DISC" is displayed.
5 **Press the ON/STAND-BY button to enter the stand-by mode, and then unplug the AC power lead from the AC socket.**

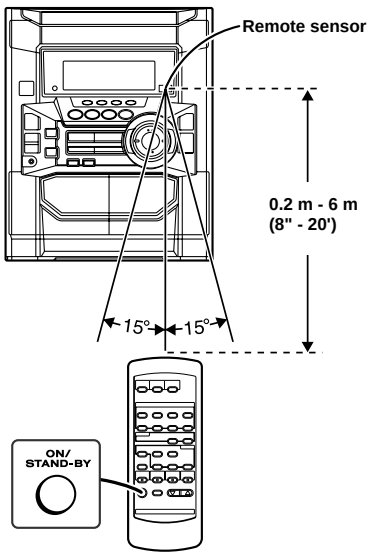


Remote Control

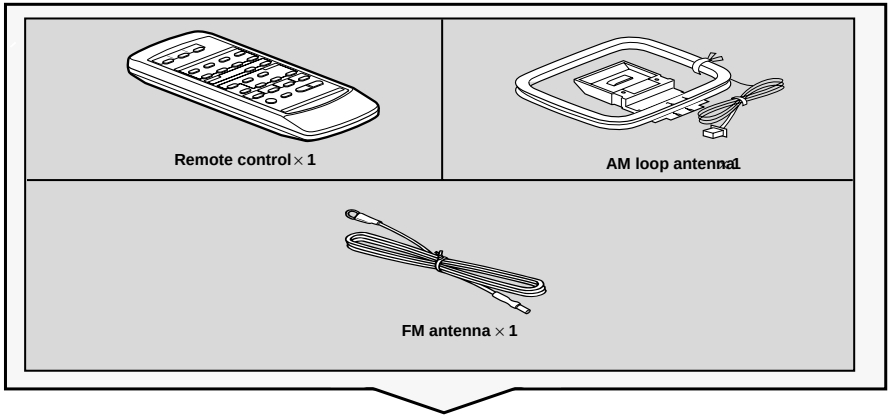
■ Test of the remote control

Face the remote control directly to the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy the music.

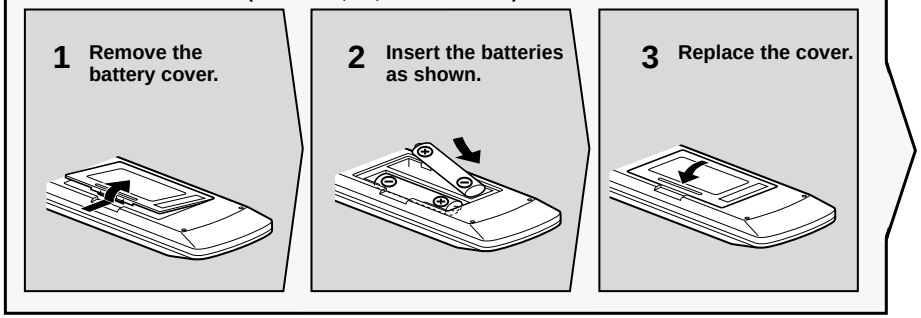


1 Accessories

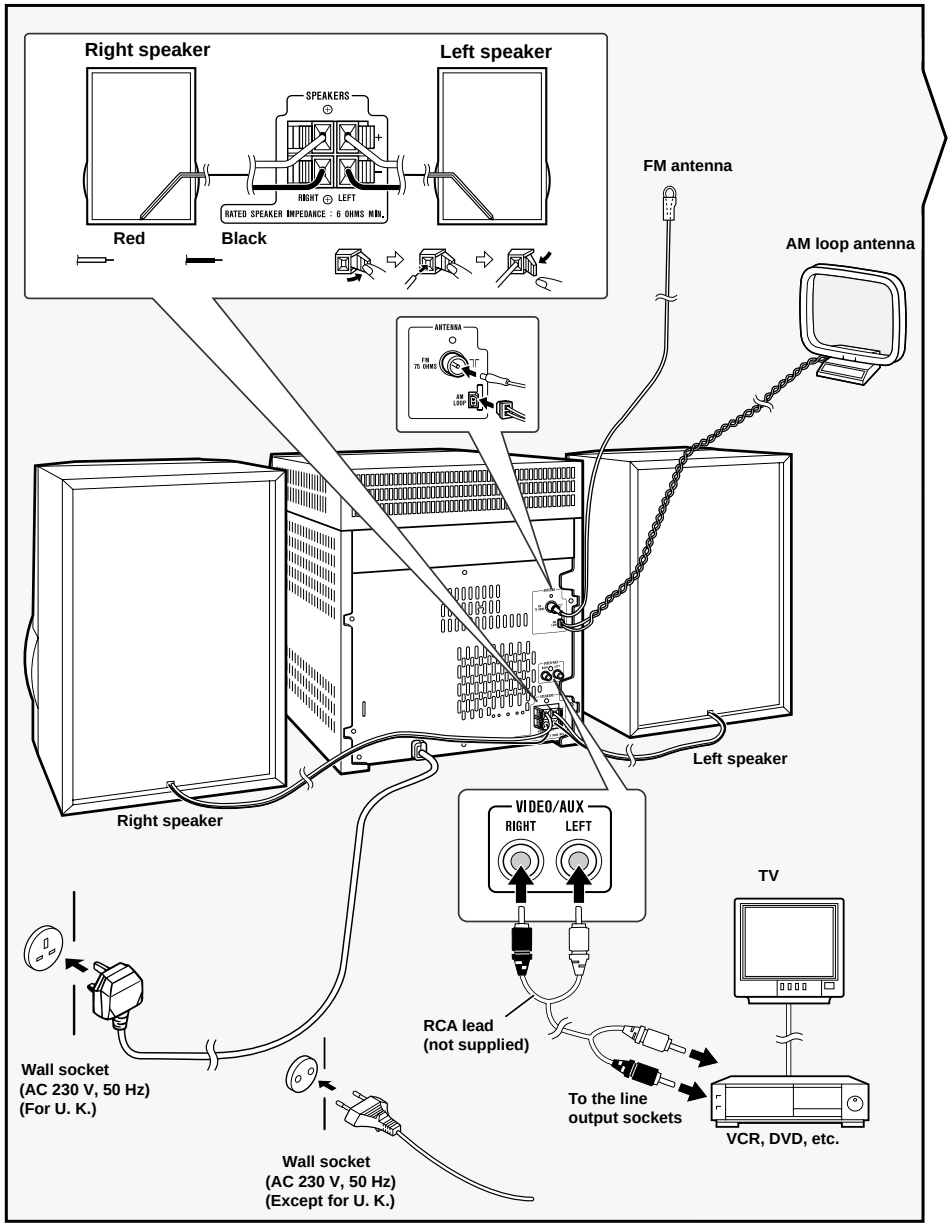


2 Battery installation of remote control

Use 2 “AA” size batteries (UM/SUM-3, R6, HP-7 or similar). Batteries are not included.



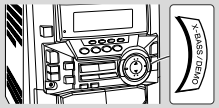
3 System connections



4 Turn on your system

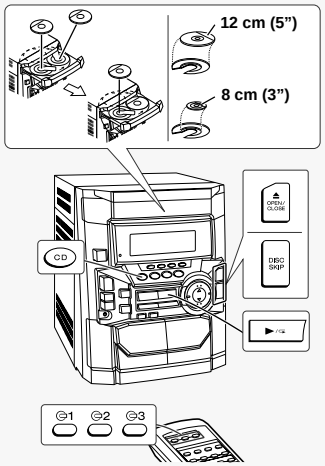
The first time the unit is plugged, the unit will enter the demonstration mode. You will see words scroll.

1 Press the X-BASS/DEMO button to cancel the demonstration mode.



2 Press the ON/ STAND-BY button to turn the power on.

Listening to a CD (CDs)



1 CD — Press the CD button.

2 OPEN/ CLOSE — Press the ≜ OPEN/CLOSE button to open the disc tray.

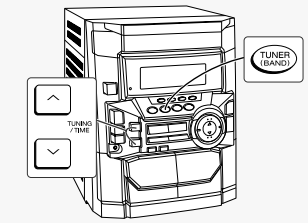
3 DISC SKIP — Place the CD(s) on the disc tray, label side up.
When loading a third disc, press the DISC SKIP button to turn the disc tray, then place the CD in the open position.

4 OPEN/ CLOSE — Press the ≜ OPEN/CLOSE button to close the disc tray.

5 ⊖1 ⊖2 ⊖3 — To select the CD you want to listen to first, press one of ⊖1 - ⊖3 buttons on the remote control.

6 ▶/⮎ — Press the ▶/⮎ button to start playback.

Listening to the radio



FM stereo mode indicator

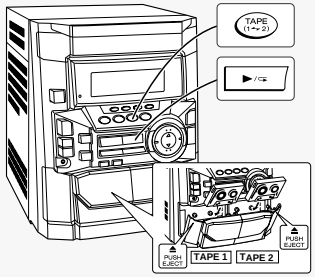
FM stereo receiving indicator

1 TUNER (BAND) — Press the TUNER (BAND) button repeatedly to select the desired frequency band (FM or AM).

2 TUNING /TIME — Press the TUNING/TIME (﹀ or ﹀) button to tune in to the desired station.
When the TUNING/TIME button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

TUNER (BAND) — To receive an FM stereo transmission:
Press the TUNER (BAND) button to display the "ST" indicator.
- " ⊙ " will appear when an FM broadcast is in stereo.

Listening to a cassette tape (TAPE 1 or TAPE 2)



1 Open the cassette door by pushing the area marked " ≜ PUSH EJECT".

2 Load a cassette into the TAPE 1 or TAPE 2 cassette compartment with the side to be played facing toward you.

3 TAPE (1⇄2) — Press the TAPE (1⇄2) button to select the cassette you want to listen to.

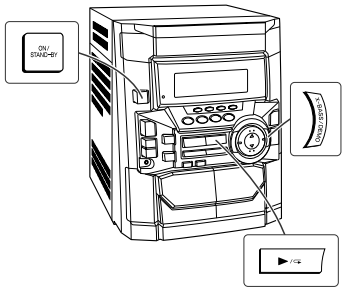
4 ▶/⮎ — Press the ▶/⮎ button to start playback.

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

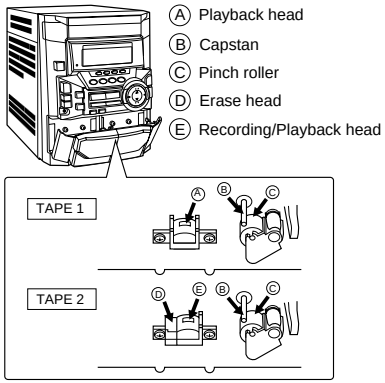
If such a problem occurs, do the following:

1. **Set the unit to the stand-by mode and turn the power on again.**
2. **If the unit is not restored in step 1, unplug and plug in the unit, and then turn the power on.**
3. **If neither step 1 nor 2 restores the unit, do the following:**
   ① Press the ON/STAND-BY button to enter the power stand-by mode.
   ② Whilst pressing down the ▶/⮎ button and the X-BASS/ DEMO button, press the ON/STAND-BY button until "CLEAR AL" appears.



■ Maintenance

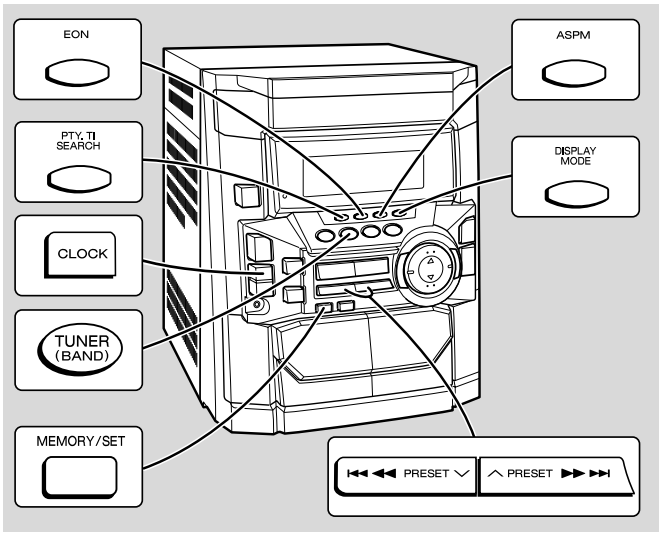
- **Dirty heads, capstans or pinch rollers can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.**
- **When cleaning the heads, pinch rollers, etc., unplug the unit which contains high voltages.**
- **After long use, the deck's heads and capstans may become magnetised, causing poor sound. Demagenetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.**
- **Clean the dust or stain on the CD pickup lens using a commercial cleaning disc (brush type).**



Using the Radio Data System (RDS)

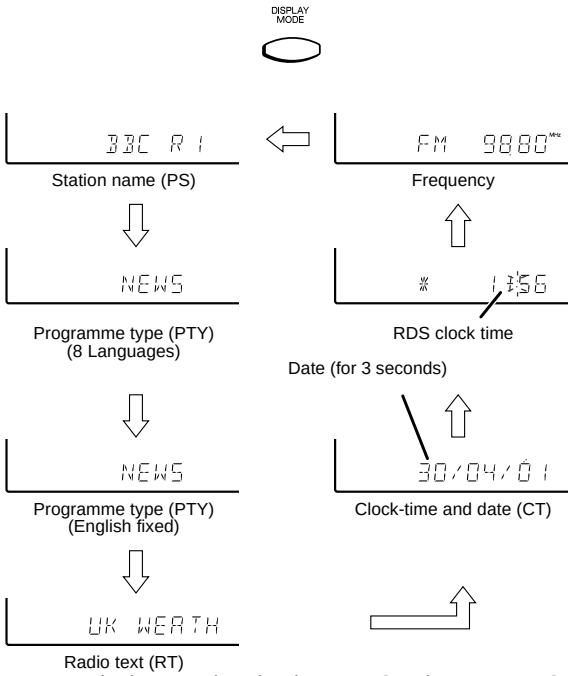
RDS is a broadcasting service which a growing number of FM stations provide. These FM stations send additional signals along with their regular programme signals. They send their station names, and information about the type of programme such as sports or music, etc.
When tuned to an RDS station, "RDS" and the station name will be displayed.
"TP" (Traffic Programme) will appear on the display when the received broadcast carries traffic information, and "TA" (Traffic Announcement) will appear whilst a traffic information is on air.
"EON" will appear whilst the EON (Enhanced Other Networks information) data is broadcast.
"PTYI" (Dynamic PTY Indicator) will appear whilst the Dynamic PTY station is received.
"RT" (Radio Text) will appear whilst the unit receives the Radio text data.
"CT" (Clock Time) will appear whilst the unit receives the RDS CT data.

You can control the RDS by using the buttons on the main unit only.

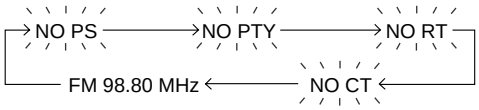


■ Information provided by RDS

Each time the DISPLAY MODE button is pressed, the display will switch as follows:



When you are tuning in to a station other than an RDS station or to an RDS station which sends weak signal, the display will change in the following order:



Descriptions of the PTY (Programme Type) codes, TP (Traffic Programme) and TA (Traffic Announcement).
You can search for and receive the following PTY, TP and TA signals.

NEWS	Short accounts of facts, events and publicly expressed views, reportage and actuality.
AFFAIRS	Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis.
INFO	Programmes whose purpose is to impart advice in the widest sense.
SPORT	Programme concerned with any aspect of sport.
EDUCATE	Programme intended primarily to educate, of which the formal element is fundamental.
DRAMA	All radio plays and serials.
CULTURE	Programmes concerned with any aspect of national or regional culture, including language, theatre, etc.
SCIENCE	Programmes about the natural sciences and technology.
VARIED	Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes, panel games, personality interviews.
POP M	Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
ROCK M	Contemporary modern music, usually written and performed by young musicians.
EASY M	Current contemporary music considered to be "easy-listening", as opposed to Pop, Rock or Classical, or one of the specialised music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration.
LIGHT M	Classical music for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
CLASSICS	Performances of major orchestral works, symphonies, chamber music, etc., and including Grand Opera.
OTHER M	Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.
WEATHER	Weather reports and forecasts and meteorological information.
FINANCE	Stock Market reports, commerce, trading, etc.
CHILDREN	For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate.
SOCIAL	Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society.
RELIGION	Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics.
PHONE IN	Involving members of the public expressing their views either by phone or at a public forum.
TRAVEL	Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.
LEISURE	Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing, Antique collecting, Cooking, Food & Wine, etc.
JAZZ	Polyphonic, syncopated music characterised by improvisation.
COUNTRY	Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line.
NATION M	Current Popular Music of the Nation or Region in that country's language, as opposed to International 'Pop' which is usually US or UK inspired and in English.
OLDIES	Music from the so-called "golden age" of popular music.
FOLK M	Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.
DOCUMENT	Programme concerned with factual matters, presented in an investigative style.
TEST	Broadcast when testing emergency broadcast equipment or receivers.
ALARM !	Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.
NONE	No programme type (receive only).
TP	Broadcasts which carry traffic announcements.
TA	Traffic announcements are being broadcast.

Note:
When you select a programme in the EON stand-by mode, the unit will display "TI" instead of "TA".

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

CD-BA250H/CD-BA2600H

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	11-1
2	Side Panel (Left/Right)	1. Screw ..... (B1) x8	11-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD tray cover, and close. (Note 1) 2. Screw ..... (C1) x1 3. Hook ..... (C2) x3 4. Hook ..... (C3) x2 5. Socket ..... (C4) x2	11-2
4	Rear Panel with Fan Motor	1. Screw ..... (D1) x10 2. Socket ..... (D2) x1	11-2
5	Main PWB	1. Screw ..... (E1) x3 2. Socket ..... (E2) x3 3. Flat Cable ..... (E3) x1 4. Flat Wire ..... (E4) x1	11-2,12-2
6	Front Panel	1. Screw ..... (F1) x2	12-2
7	Display PWB	1. Screw ..... (G1) x12 2. Flat Cable ..... (G2) x1	12-3
8	Tape Mechanism	1. Open the cassette holder. 2. Screw..... (H1) x5	12-3
9	Headphones PWB	1. Screw ..... (J1) x1	12-3
10	Turntable	1. Hook ..... (K1) x2 2. Cover ..... (K2) x1	12-4
11	Disc Tray	1. Turn fully the lock lever in the arrow direction. 2. While holding the lock lever,rotate the cam gear until the cam gear rib engages with the clamp lever. 3. Push the slide chassis backward to engage the claw with the groove and remove it in the direction of the arrow. ..... (L1) x6	11-3 12-1 12-5
12	CD Servo PWB (Note 2)	1. Screw ..... (M1) x1 2. Hook ..... (M2) x2 3. Socket ..... (M3) x4	12-6
13	CD Mechanism	1. Hook ..... (N1) x2 2. Hook ..... (N2) x3	13-1

Note 1: How to open the changer manually. (Fig. 11-3)

1. In this state, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom.
2. While holding the lock lever, rotate the cam gear anticlockwise until the cam gear rib engages with the clamp lever. (Fig. 12-1)
3. After that, push forward the CD slide chassis.

Note 2:

1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electro-static damage.

CD-BA250H/CD-BA2600H

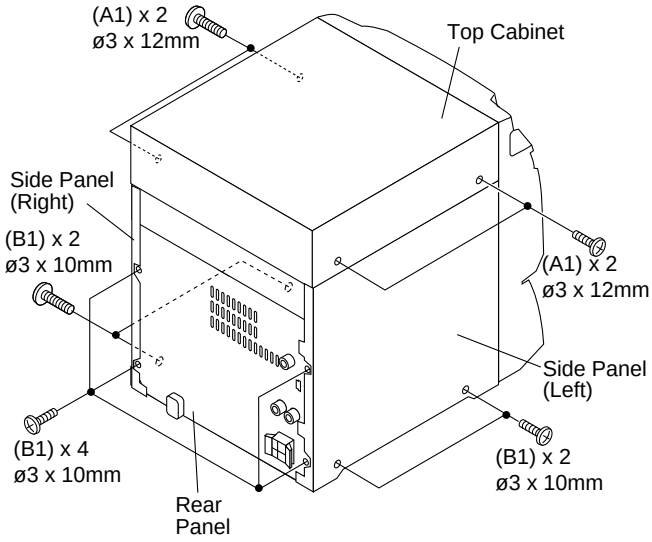


Figure 11-1

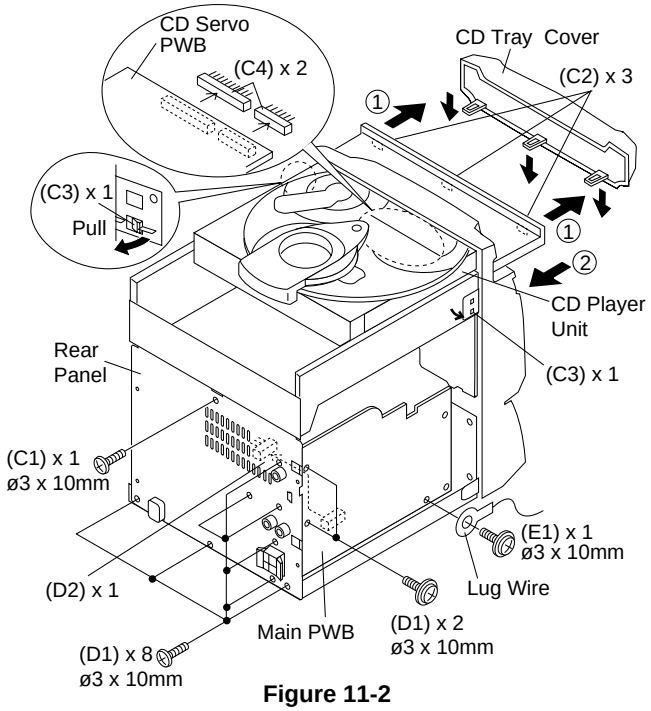


Figure 11-2

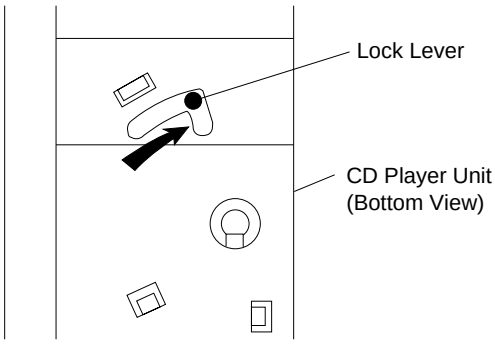


Figure 11-3

Note 3:

1. Be careful not to break the claw of the CD mechanism.
2. When fining back the cam gear assembly, let it lock by front movement.

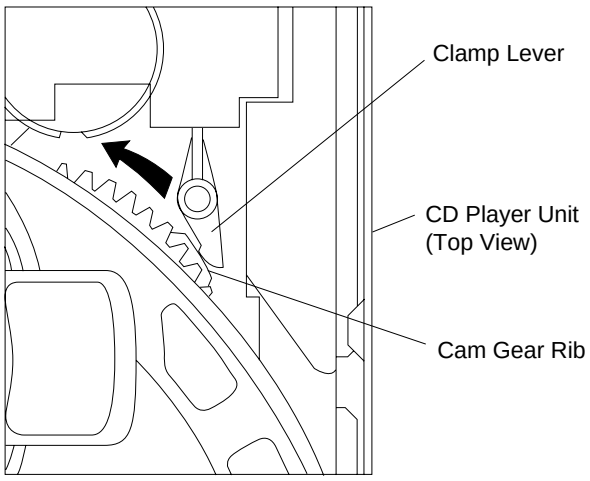


Figure 12-1

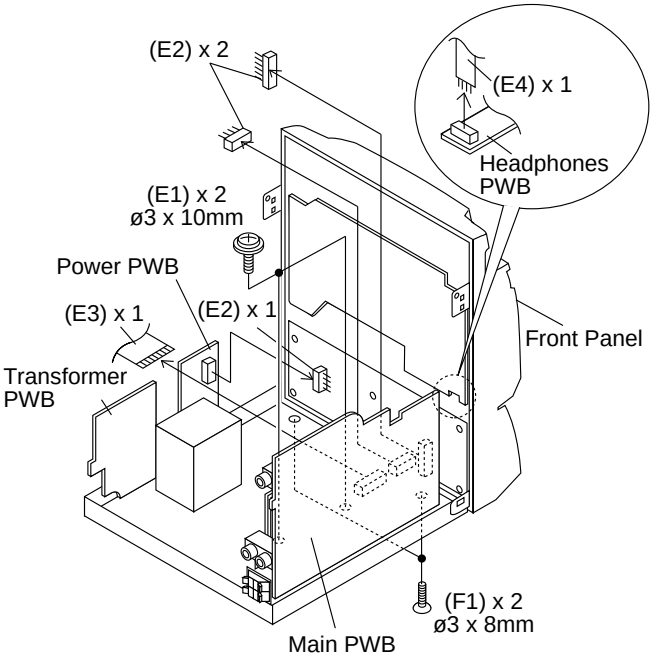


Figure 12-2

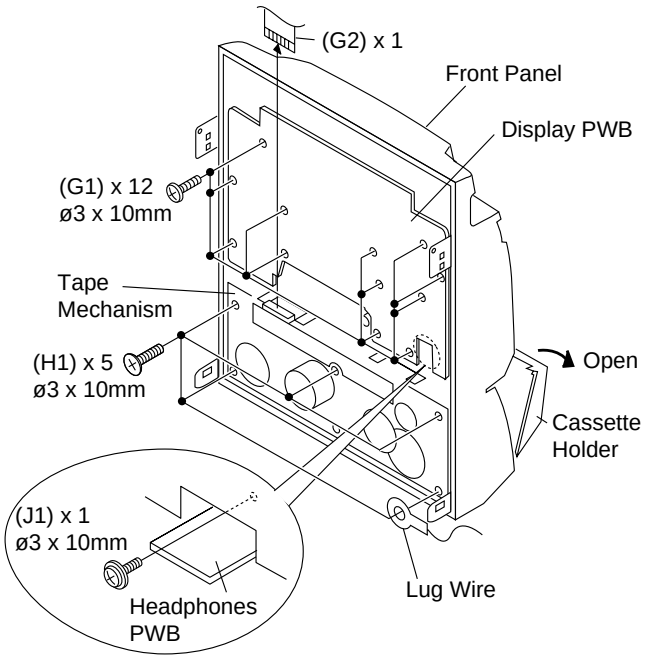


Figure 12-3

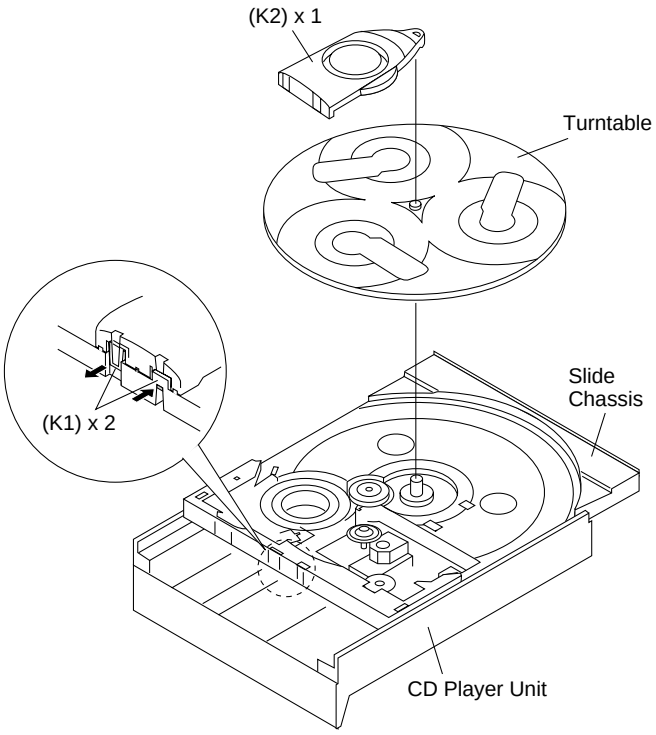


Figure 12-4

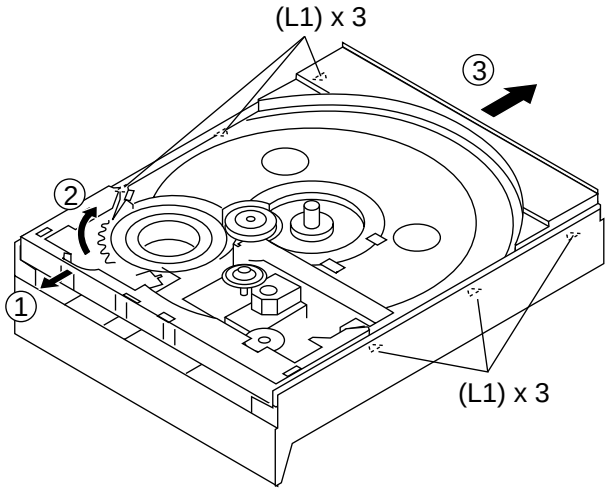


Figure 12-5

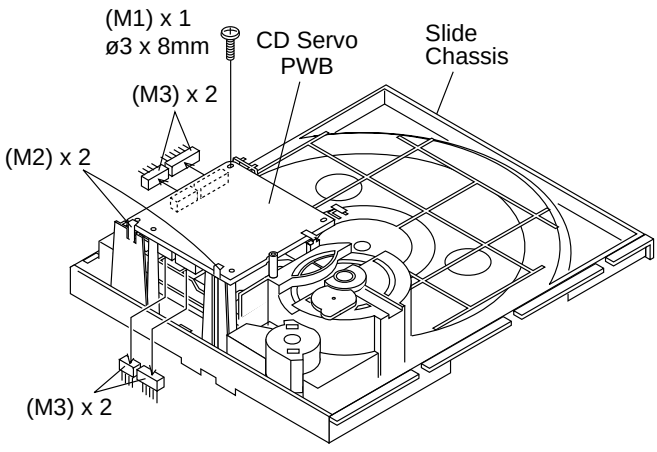


Figure 12-6

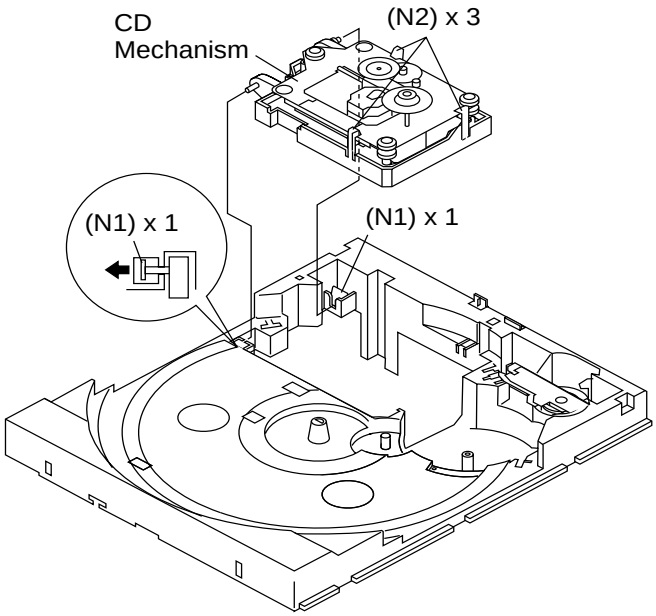


Figure 13-1

CP-BA250H/CP-BA2600H

STEP	REMOVAL	PROCEDURE	FIGURE
1	Front Panel	1. Net ..... (A1) x1	13-2
2	Woofer	1. Screw ..... (B1) x4	13-3
3	Tweeter	1. Screw ..... (C1) x2	13-3

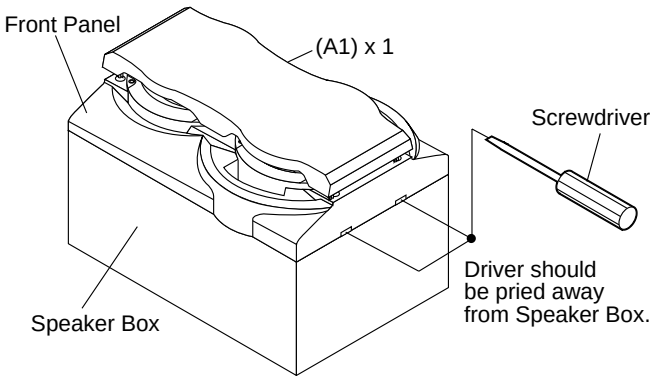


Figure 13-2

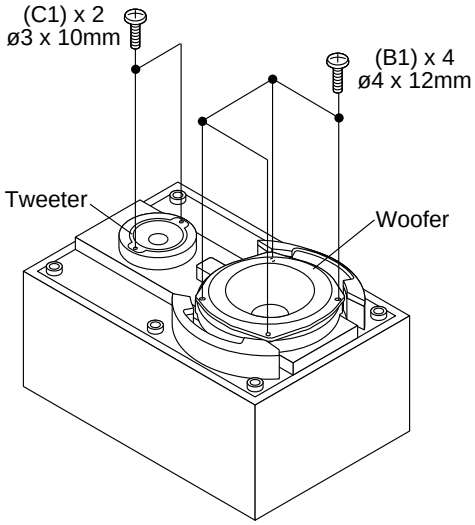


Figure 13-3

REMOVING AND REINSTALLING THE MAIN PARTS

TAPE MECHANISM SECTION

Perform steps 1 to 6 and 8 of the disassembly method to remove the tape mechanism.

How to remove the record/playback and erase heads (TAPE 2) (See Fig. 14-1)

1. When you remove the screws (A1) x 2 pcs., the recording/playback head and three-dimensional head of the erasing head can be removed.

How to remove the playback head (TAPE 1) (See Fig. 14-2)

1. When you remove the screws (B1) x 2 pcs., the playback head.

How to remove the pinch roller (TAPE 1/2) (See Fig. 14-3)

1. Carefully bend the pinch roller pawl in the direction of the arrow **<A>**, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow **<B>**.

Note:

When installing the pinch roller, pay attention to the spring mounting position.

How to remove the belt (TAPE 2) (See Fig. 14-4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

How to remove the belt (TAPE 1) (See Fig. 14-4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

How to remove the motor (See Fig. 14-5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

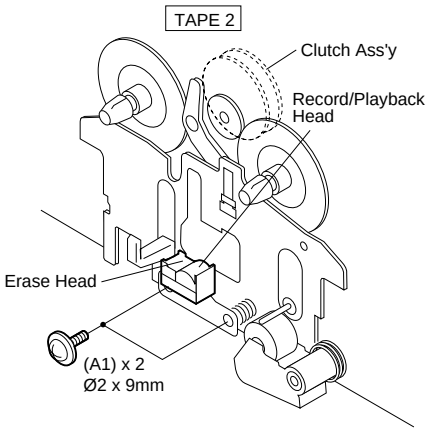


Figure 14-1

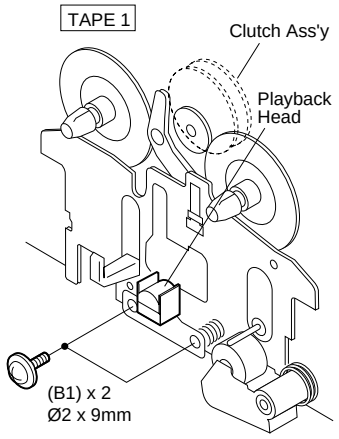


Figure 14-2

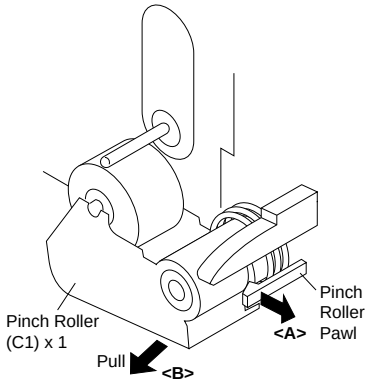


Figure 14-3

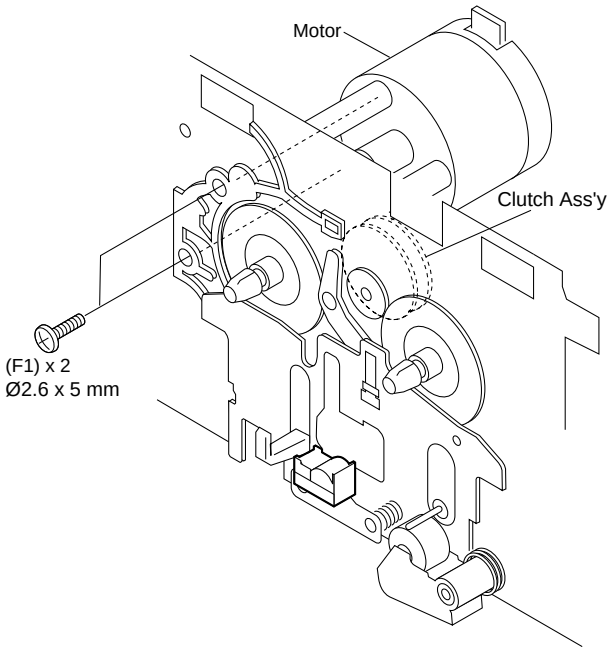


Figure 14-5

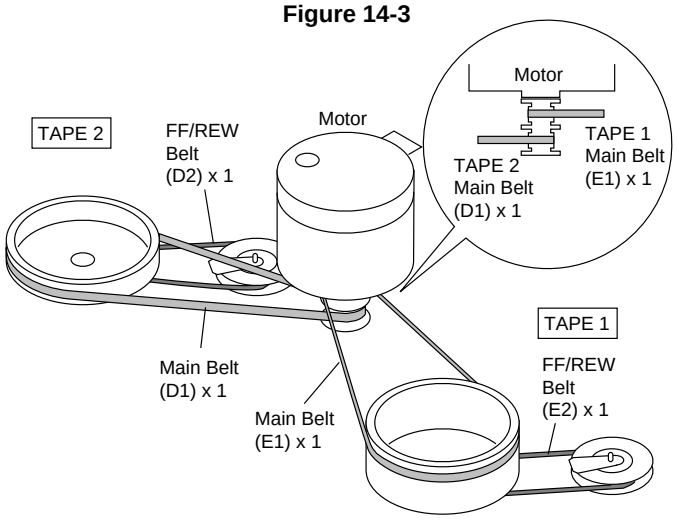

TAPE 2
FF/REW Belt (D2) x 1
Motor
Motor
TAPE 1 Main Belt (E1) x 1
TAPE 2 Main Belt (D1) x 1
TAPE 1
Main Belt (D1) x 1
Main Belt (E1) x 1
FF/REW Belt (E2) x 1

Figure 14-4

CD MECHANISM SECTION

Perform steps 1, 2, 3, 10, 11, 12 and 13 of the disassembly method to remove the CD mechanism.

How to remove the loading motor (See Fig. 15-1)

1. Bend the hooks (A1) x 5 pcs., to remove the loading motor.
2. Remove the drive belt (A2) x 1pc.

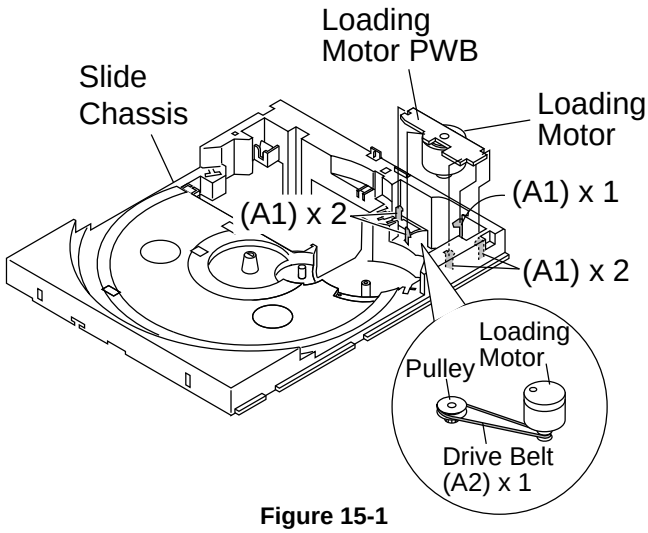


Figure 15-1

How to remove the pickup (See Fig. 15-2)

1. Remove the stop washer (B1) x 1 pc., to remove the gear (B2) x 1 pc.
2. Remove the screws (B3) x 2 pcs., to remove the shaft (B4).
3. Remove the pickup.

Note

After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

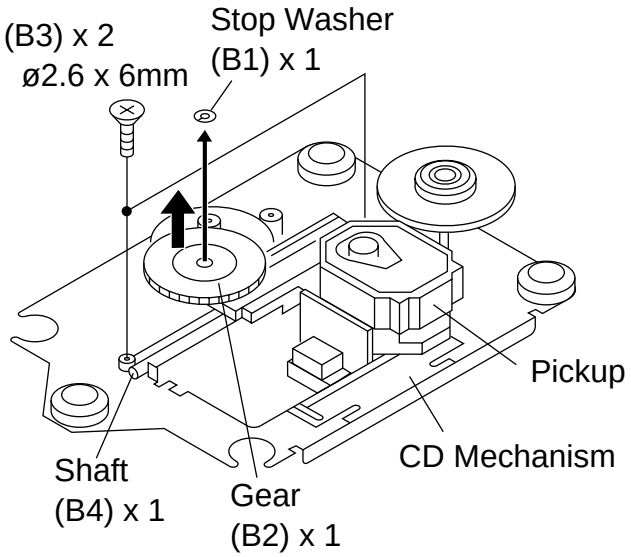


Figure 15-2

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g.cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
Rewind: TW-2231	—	70 to 180 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor.	3,000 ± 30 Hz	Speaker Terminal (Load resistance: 6 ohms)

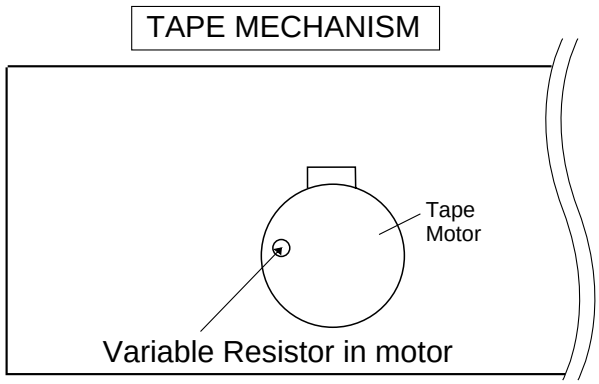


Figure 15-3

TUNER SECTION

fL: Low-range frequency
fH: High-range frequency

- **AM IF/RF**

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,620 kHz	T351	*1
AM Band Coverage	—	522 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

*1. Input: Antenna Output: TP302
*2. Input: Antenna Output: TP301

- **FM**

Notes:

1: Description of the "FM IF Adjustment" is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.
2: The parts in the FM front end section are prepared in a complete unit, so you can't obtain each part individually.

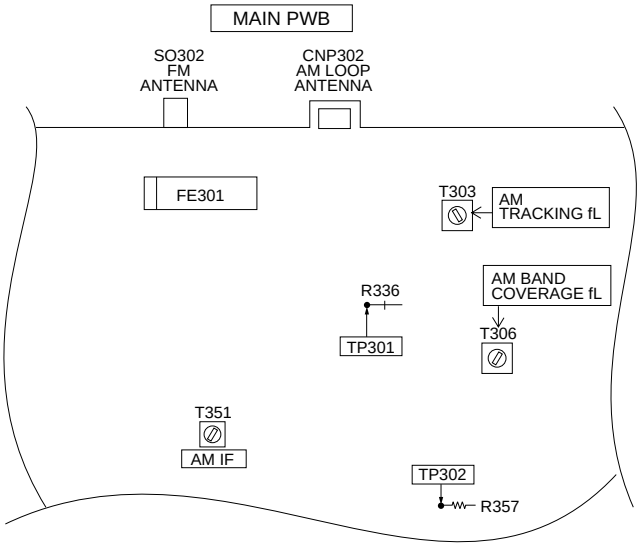


Figure 16-1 ADJUSTMENT POINTS

CD SECTION

- **Adjustment**

Since this CD system incorporates the following automatic adjustment functions, readjustment is not needed when replacing the pickup. Therefore, different PWBs and pickups can be combined freely.

Each time a disc is changed, these adjustments are performed automatically. Therefore, playback of each disc can be performed under optimum conditions.

Items adjusted automatically

(1) Offset adjustment (The offset voltage between the head amplifier output and the VREF reference voltage is compensated inside the IC.)
  * Focus offset adjustment
  * Tracking offset adjustment

(2) Tracking balance adjustment (waveform drawing Fig.16-2 EFBL)

(3) Gain adjustment (The gain is compensated inside the IC so that the loop gain at the gain crossover frequency will be 0 dB.)
  * Focus gain adjustment
  * Tracking gain adjustment

CD ERROR CODE DESCRIPTION

Error	State Code
	[Servo System Error]
0001	Cannot detect Pickup-in SW
0002	DSP access error
	[Error during close operation]
0101	Open/Close SW not functioning (Low → High)
0103	Open/Close SW not functioning (High → Low)
	[Error during open operation]
0201	Open/Close SW not functioning (Low → High)
0203	Open/Close SW not functioning (High → Low)
	[Error during skip operation]
0302	Pickup-in SW is not detected
0306	During Disc 1 search, Open/Close SW or Clamp SW or Disc SW do not change to low.
0307	Clamp SW not function (Low → High)
0308	Clamp SW not function (High → Low)

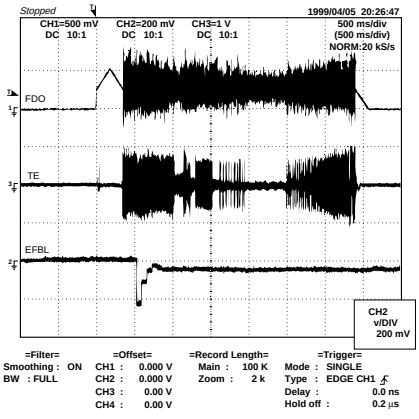
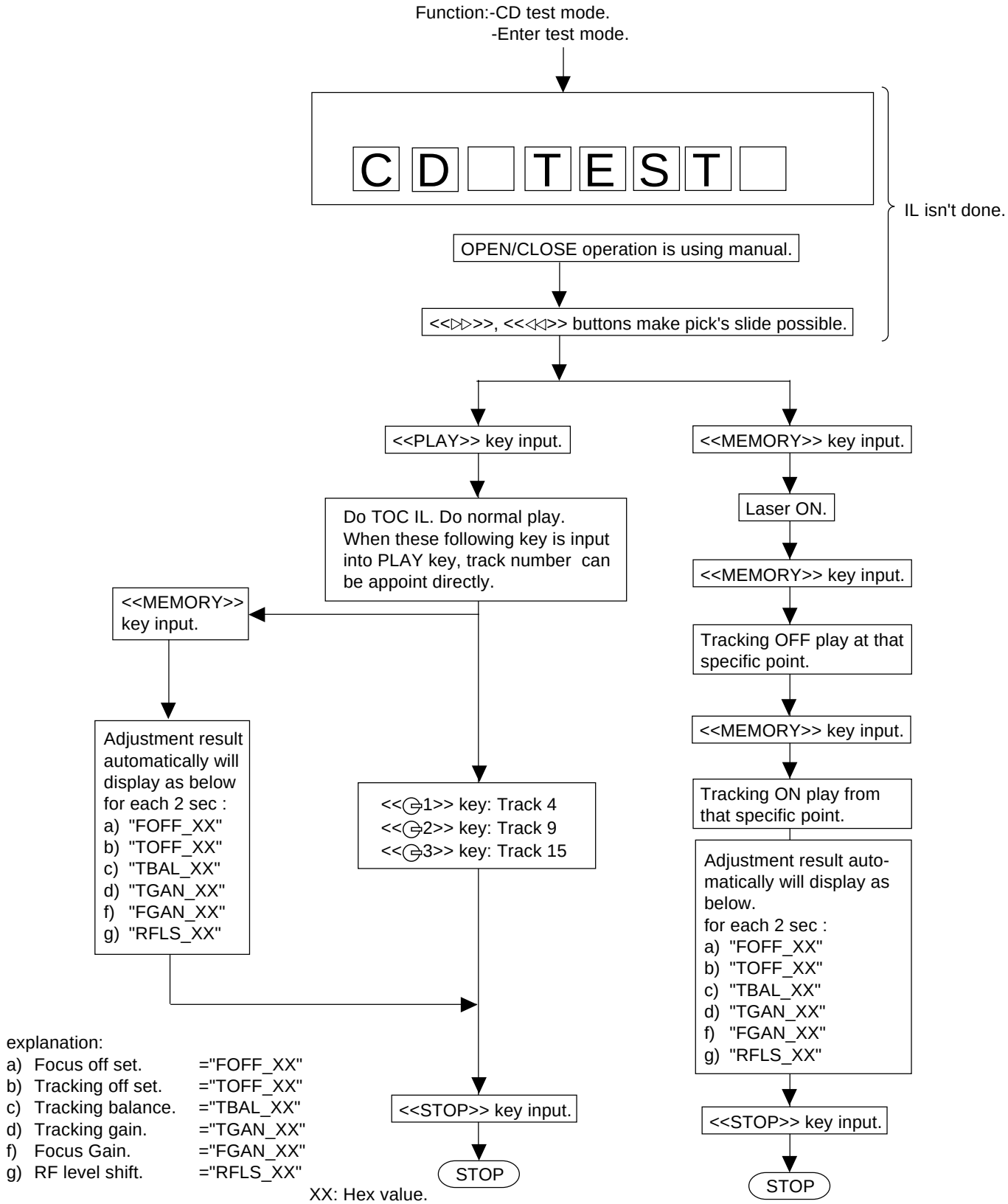


Figure 16-2

TEST MODE

• **Setting the test mode**

Any one of test mode can be set by pressing several keys as follows.
<X-BASS> + <CD> + <POWER> TEST:CD operation test.



explanation:

a)	Focus off set.	="FOFF_XX"
b)	Tracking off set.	="TOFF_XX"
c)	Tracking balance.	="TBAL_XX"
d)	Tracking gain.	="TGAN_XX"
f)	Focus Gain.	="FGAN_XX"
g)	RF level shift.	="RFLS_XX"

XX: Hex value.

VOL — Last memory.
BAL — CENTER
P.GEQ — FLAT
X-BASS — OFF

To cancel : Power OFF

Sliding the PICKUP with <<▷▷>>, <<◁◁>> button must only be in STOP mode.

Standard Specification of Stereo System Error Message Display Contents

Error Contents		DISPLAY	Notes
Output while Device Protection Operation.		'PROTECT'	00: While in Protect Circuit Operate. 01: Over Current Detection. 02: DC Detection. 03:
TAPE	Mechanism Error.	'ER-TA**'	00: Tape Mechanism Error. 01: Initial Error. 02: 03:
CD/VCD	Pickup Mechanism Error.	'ER-CD**'	00: Pickup Mechanism Error. 01: PU-IN SW Detection NG. 02: 03: 04:
	CD Changer Mechanism Error.	'ER-CD**'	10: Changer Error. 11: Initial Error. 12: 13:
	Tray Error.	'ET-CD**'	20: Tray Error. 21: 22: 23:
	Focus Not Match.	'NO DISC'	
	IL Time Over.	'NOT READ'	
TUN	PLL Unlock.	'ER-TU**'	00: TUN Error. 01: PLL Unlock. 02: 03:

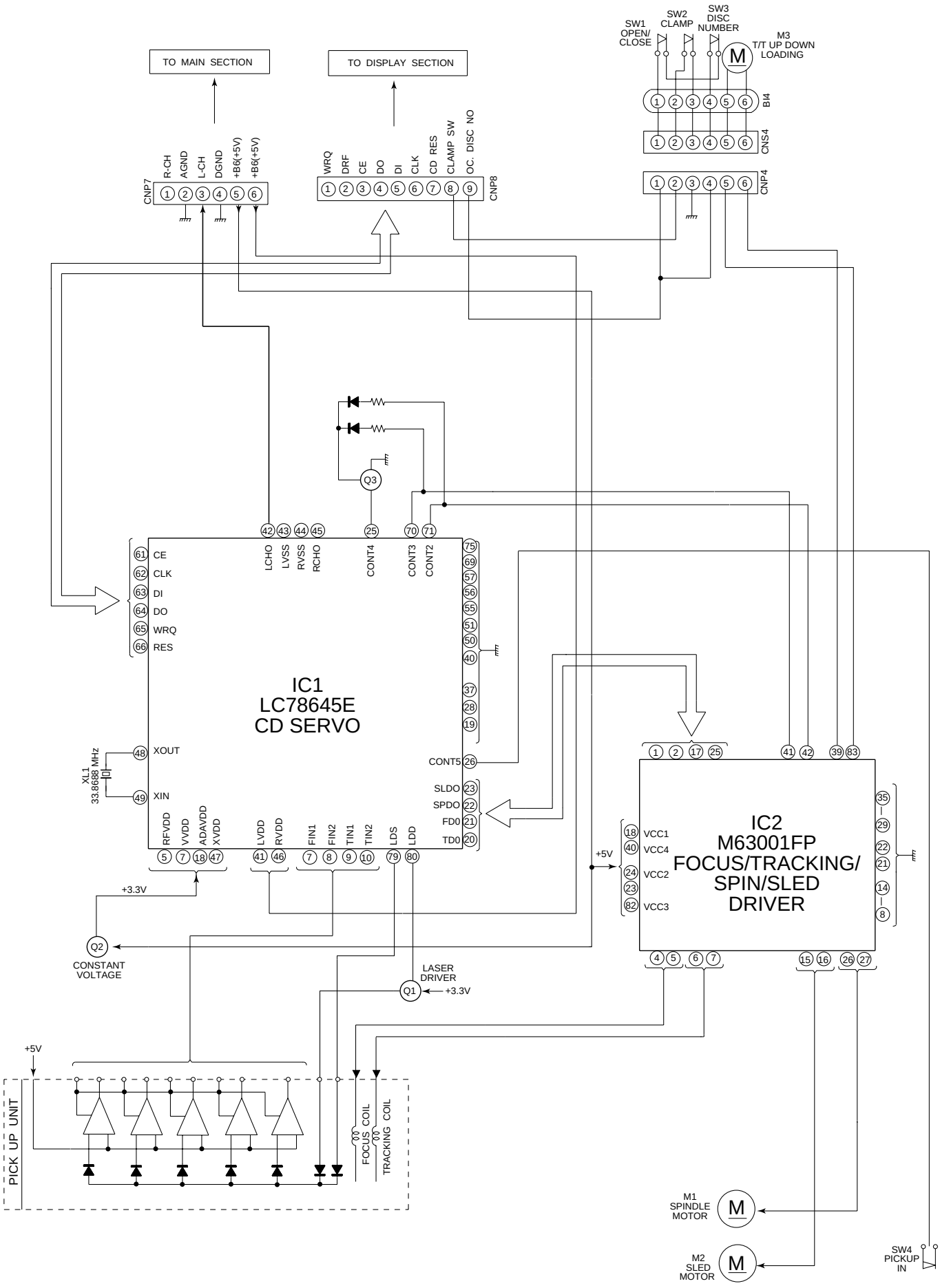


Figure 19 BLOCK DIAGRAM (1/3)

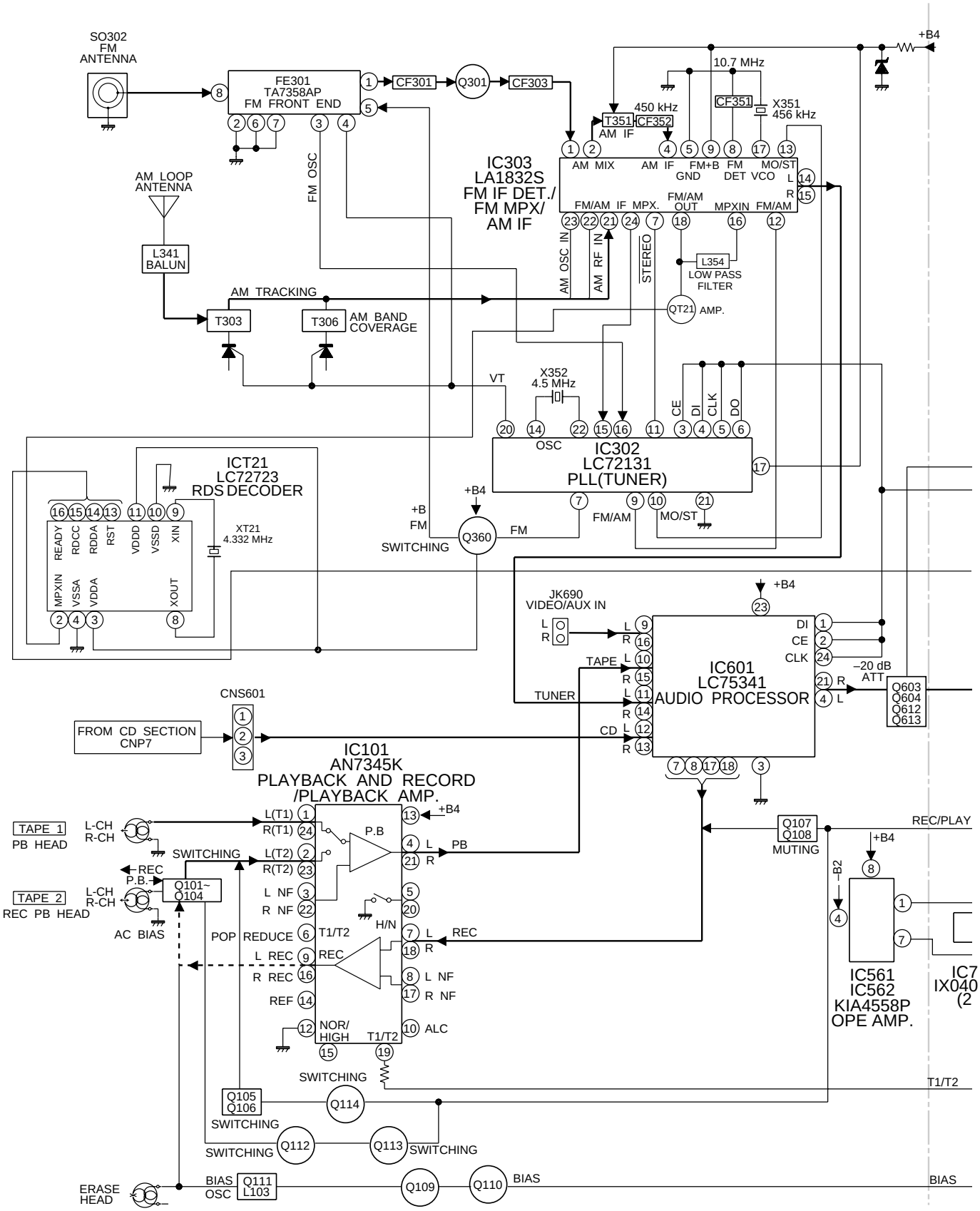


Figure 20 BLOCK DIAGRAM (2/3)

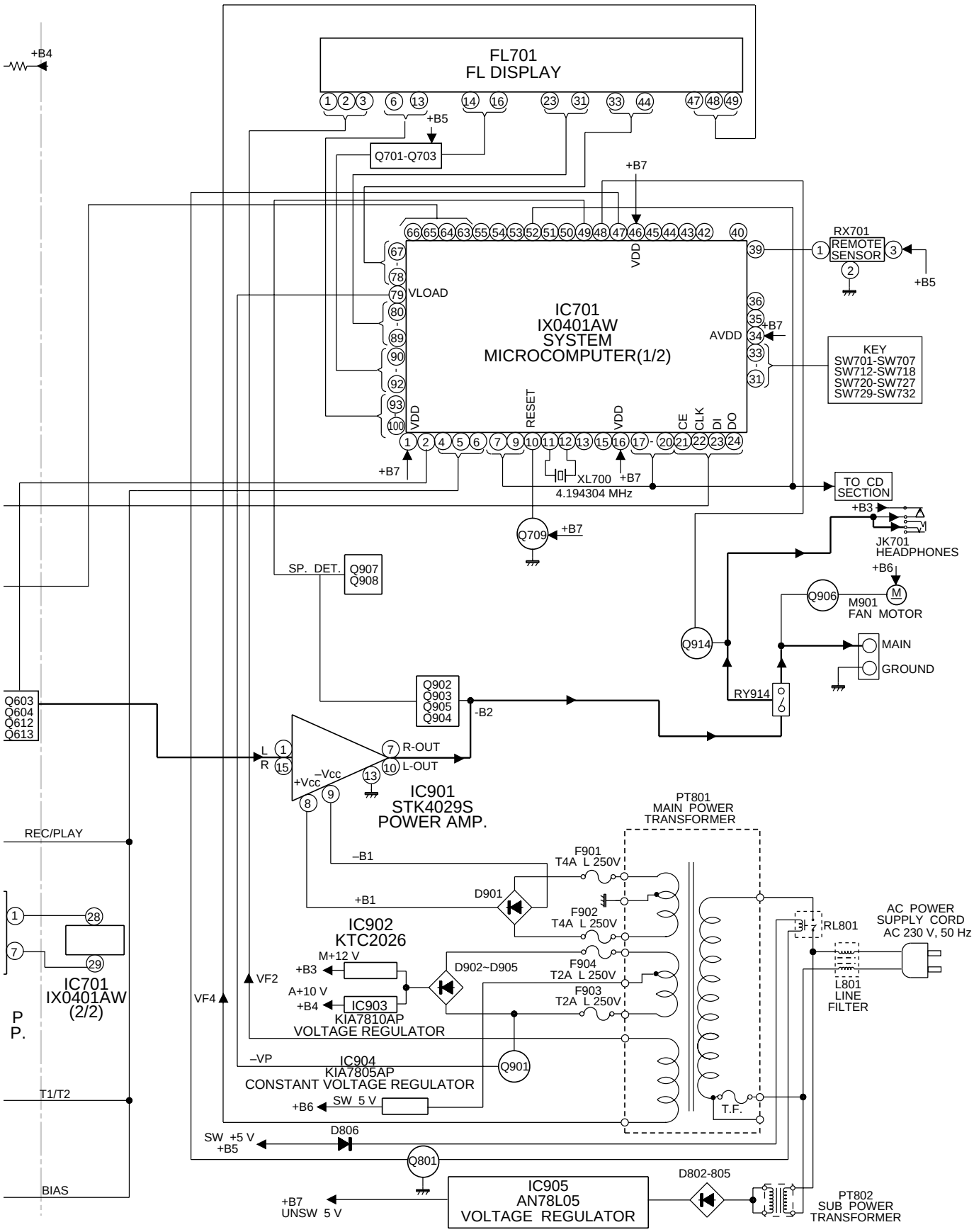
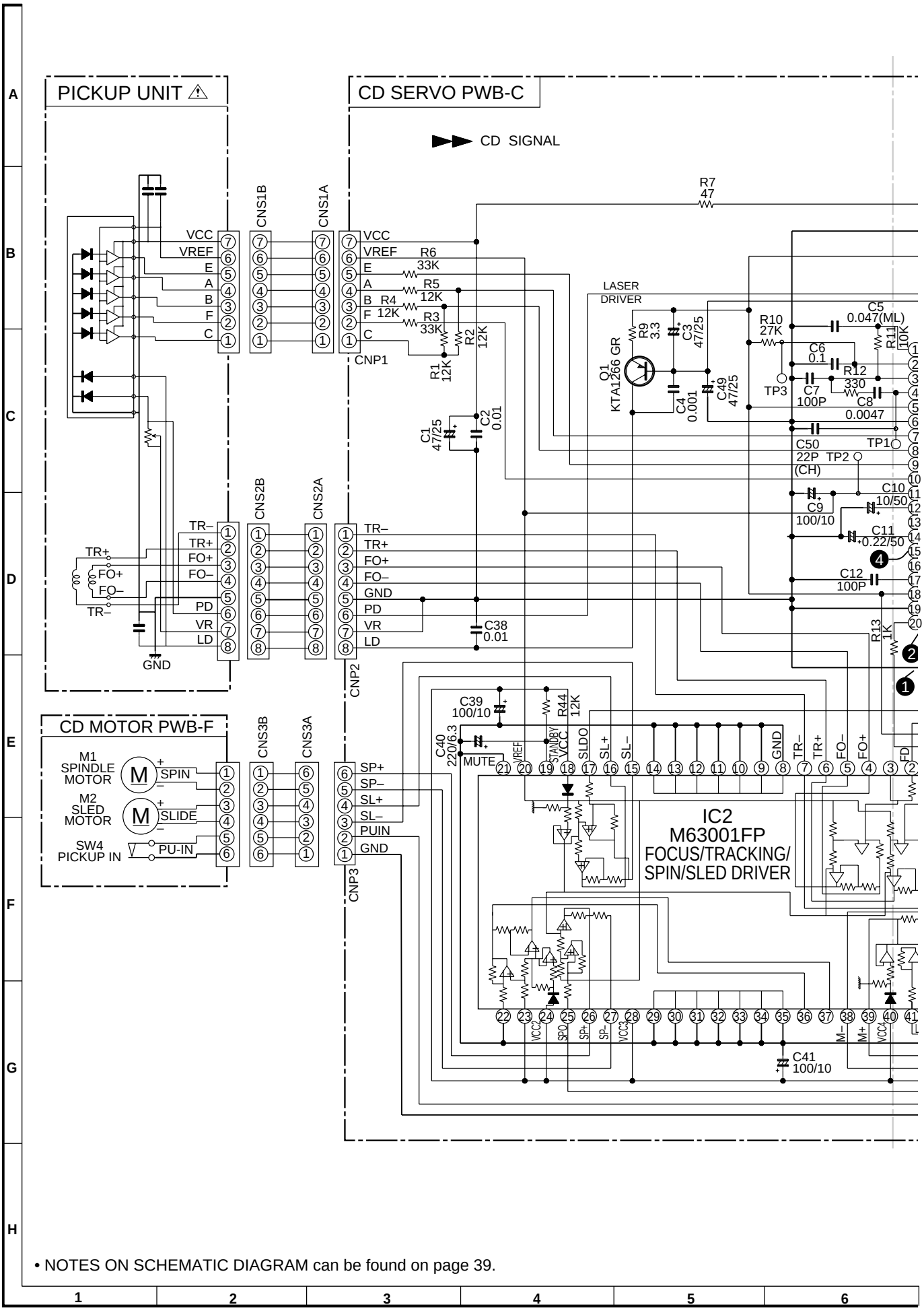
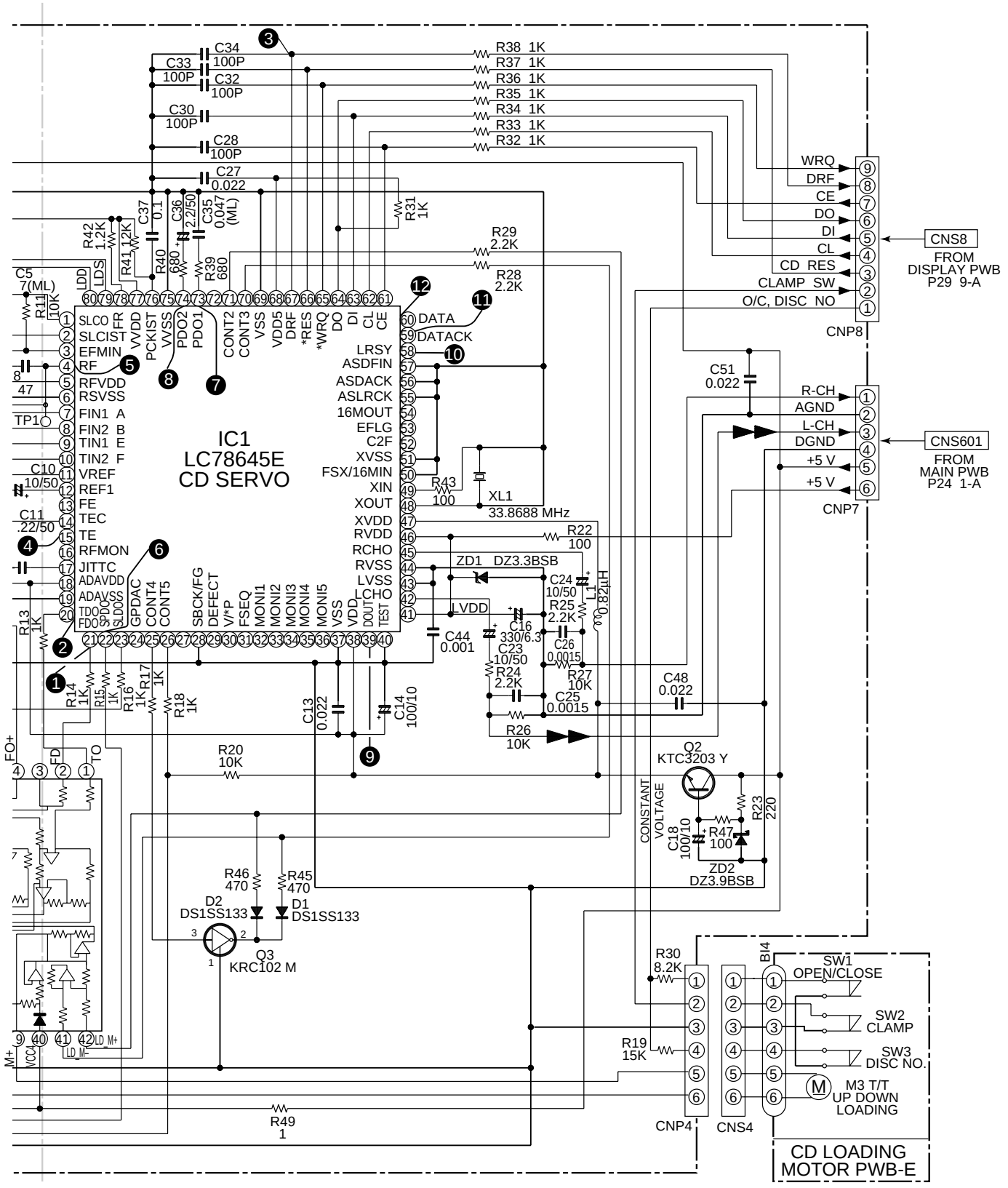


Figure 21 BLOCK DIAGRAM (3/3)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 39.

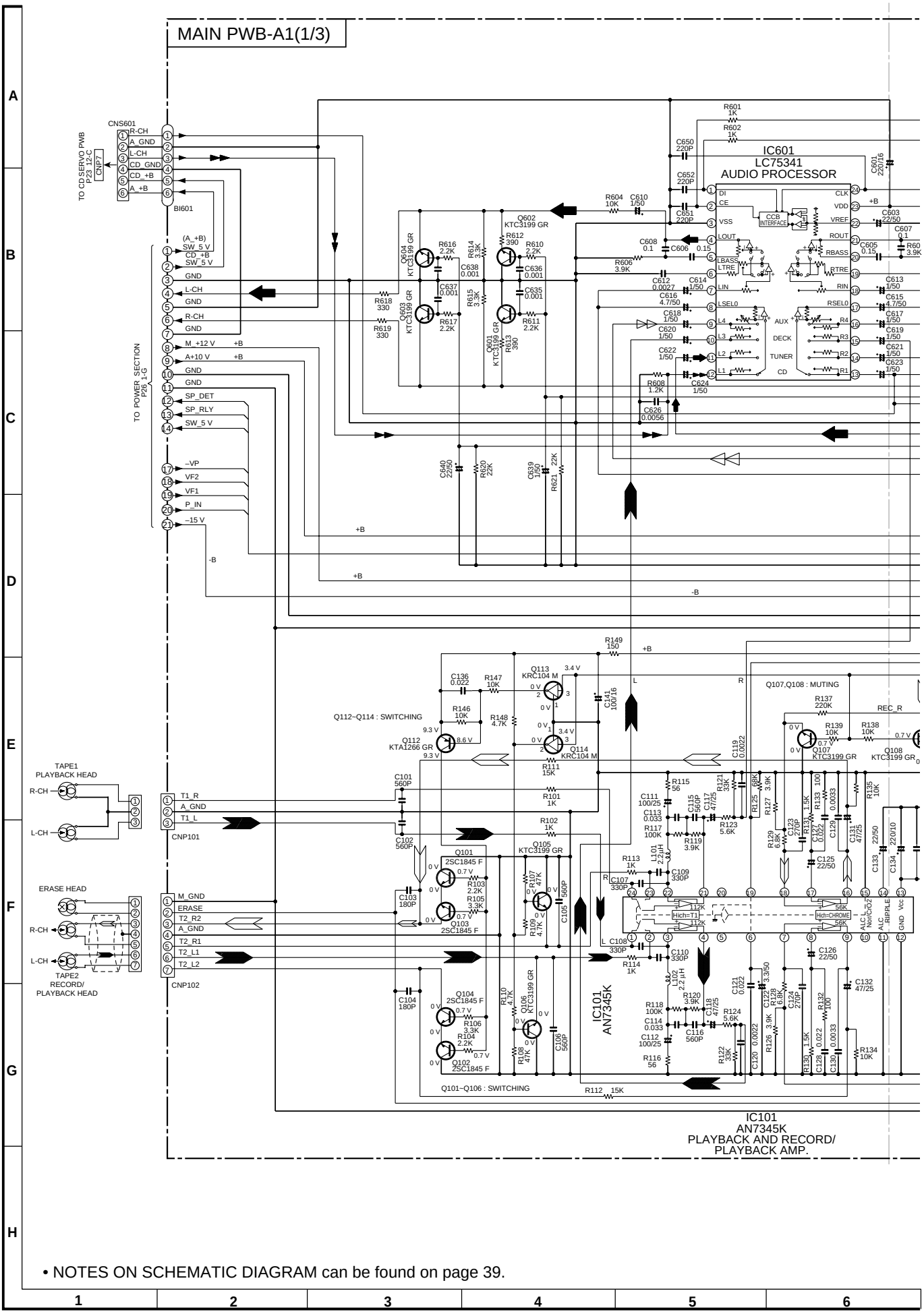
Figure 22 SCHEMATIC DIAGRAM (1/9)



• The numbers ❶ to ⓬ are waveform numbers shown in page 40.

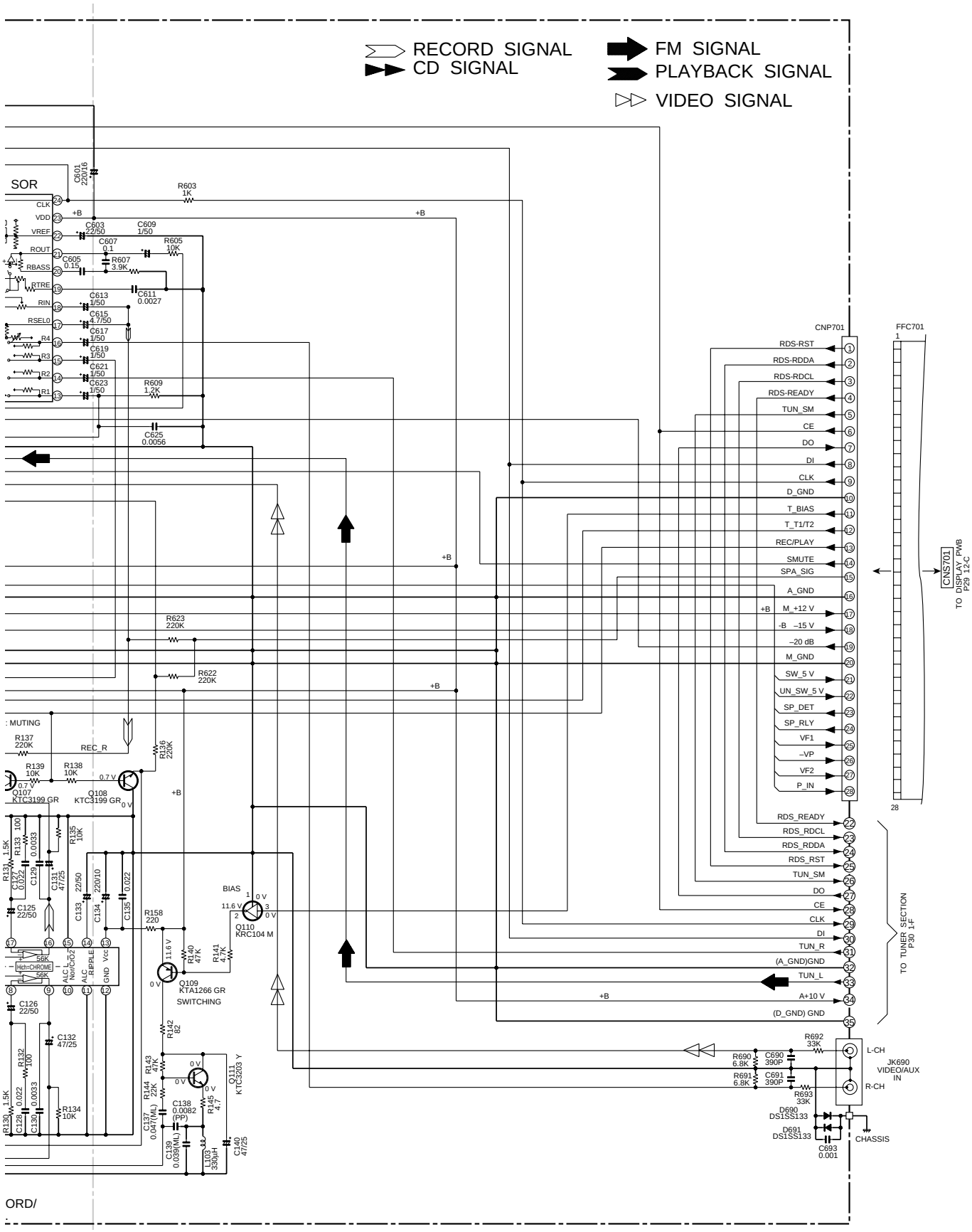
7	8	9	10	11	12

Figure 23 SCHEMATIC DIAGRAM (2/9)



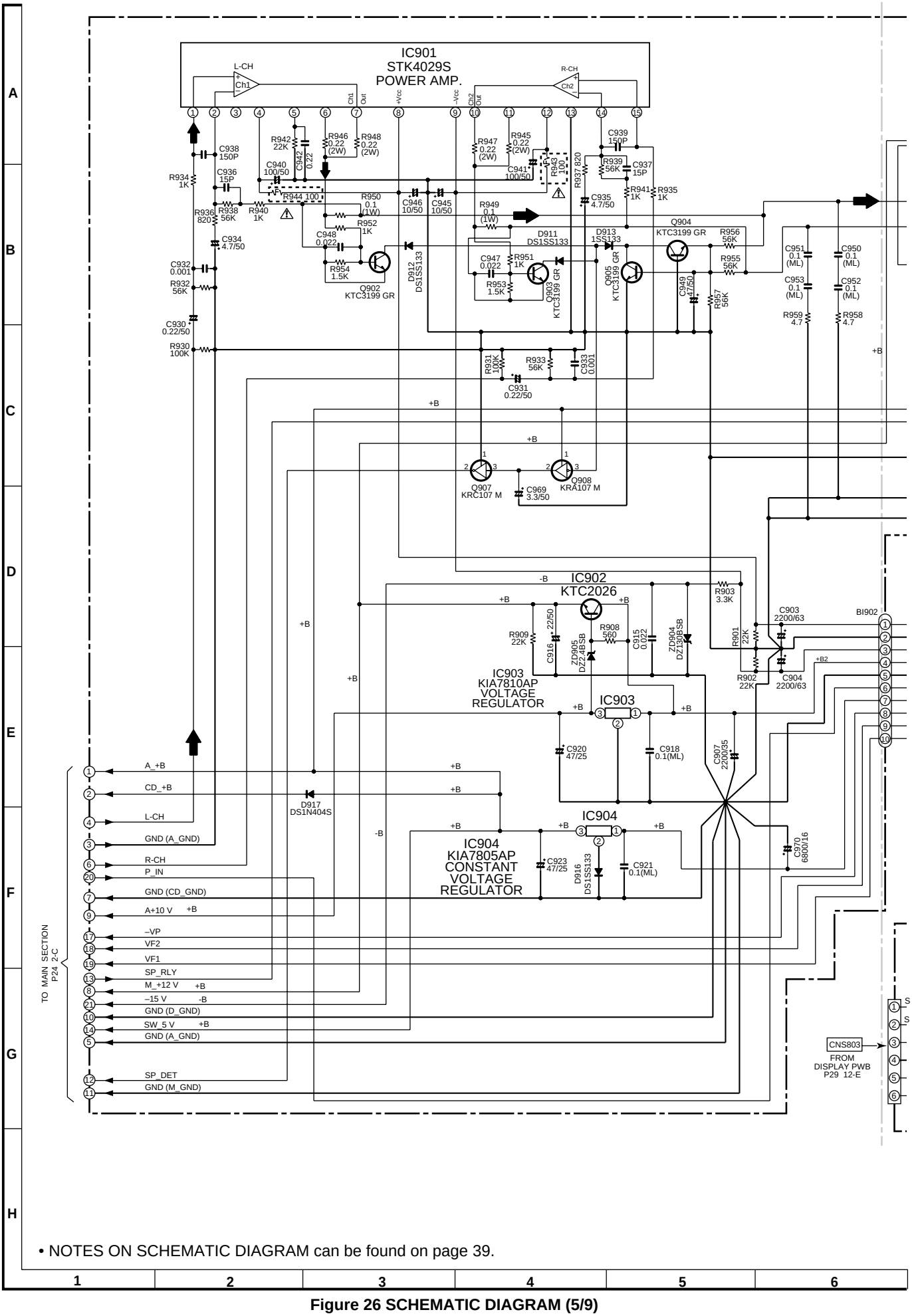
• NOTES ON SCHEMATIC DIAGRAM can be found on page 39.

Figure 24 SCHEMATIC DIAGRAM (3/9)



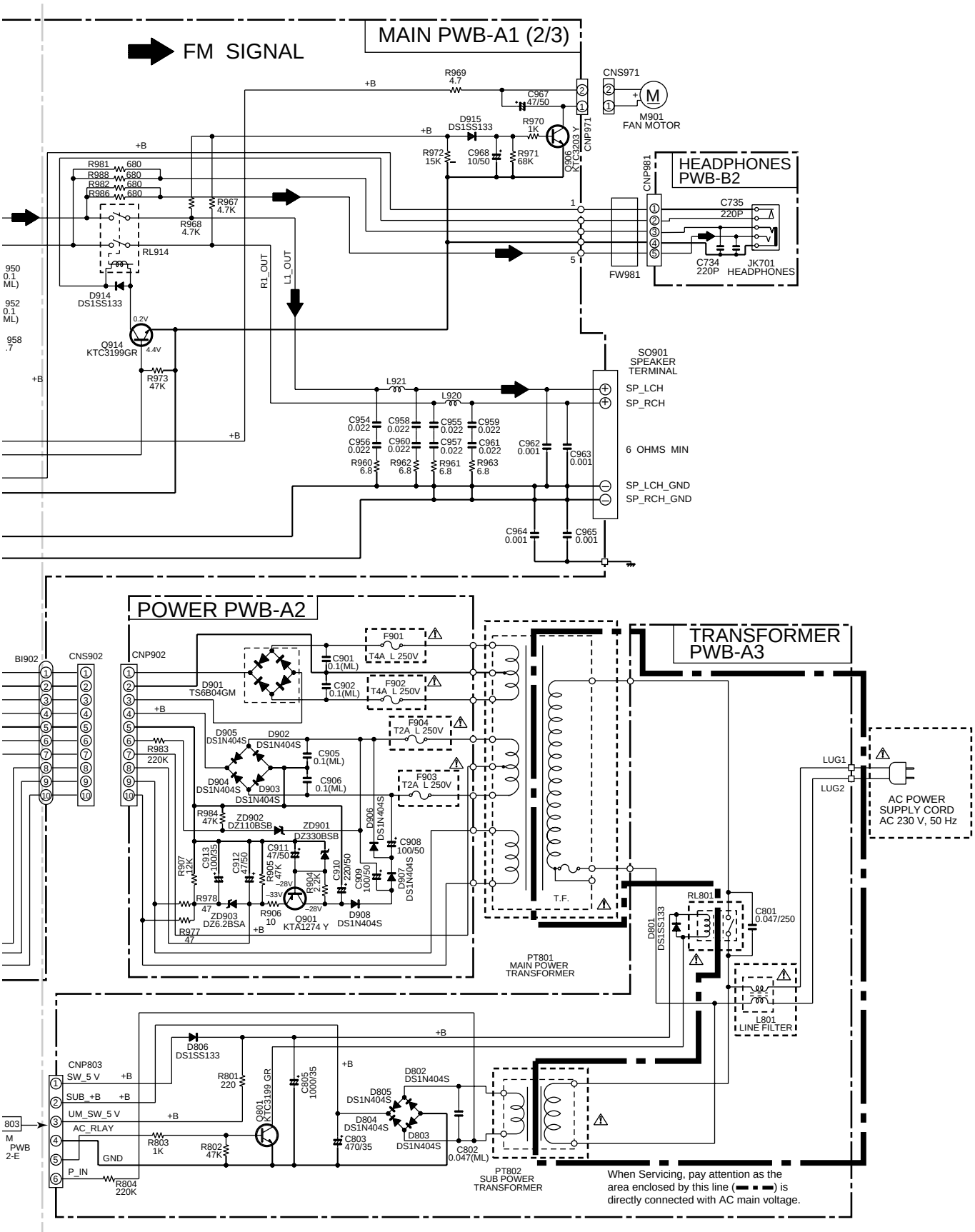
7	8	9	10	11	12

Figure 25 SCHEMATIC DIAGRAM (4/9)



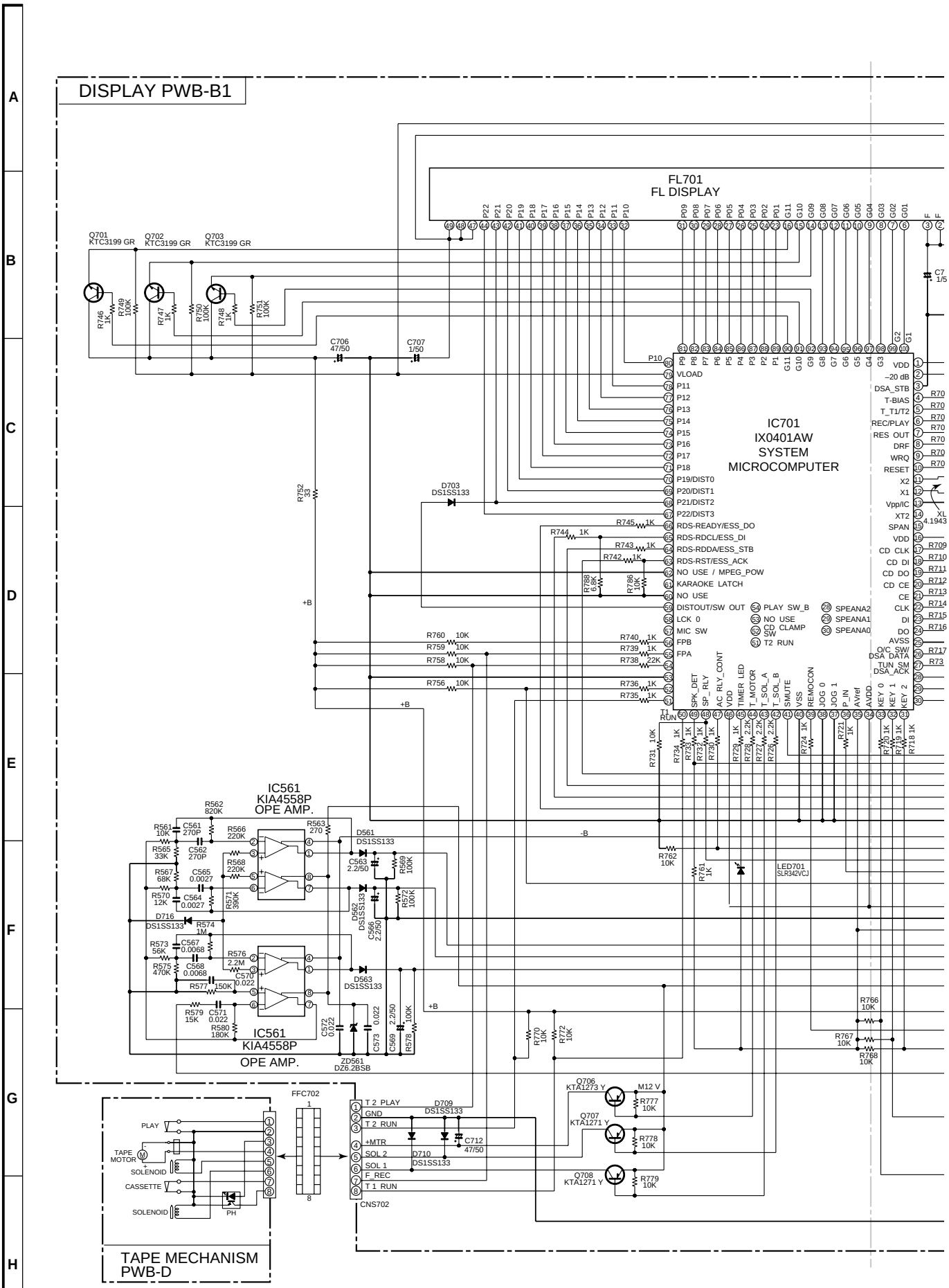
• NOTES ON SCHEMATIC DIAGRAM can be found on page 39.

Figure 26 SCHEMATIC DIAGRAM (5/9)



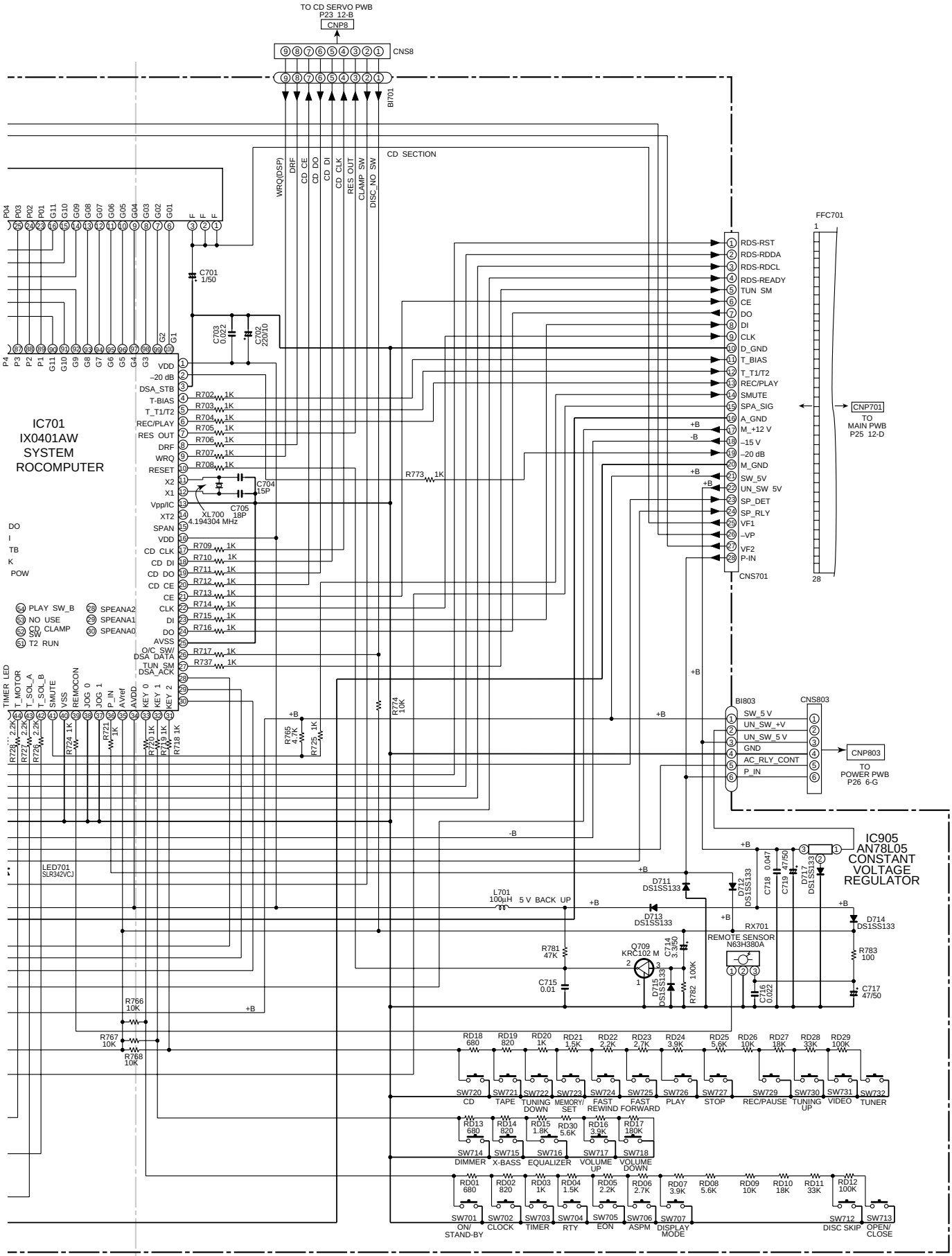
7	8	9	10	11	12

Figure 27 SCHEMATIC DIAGRAM (6/9)



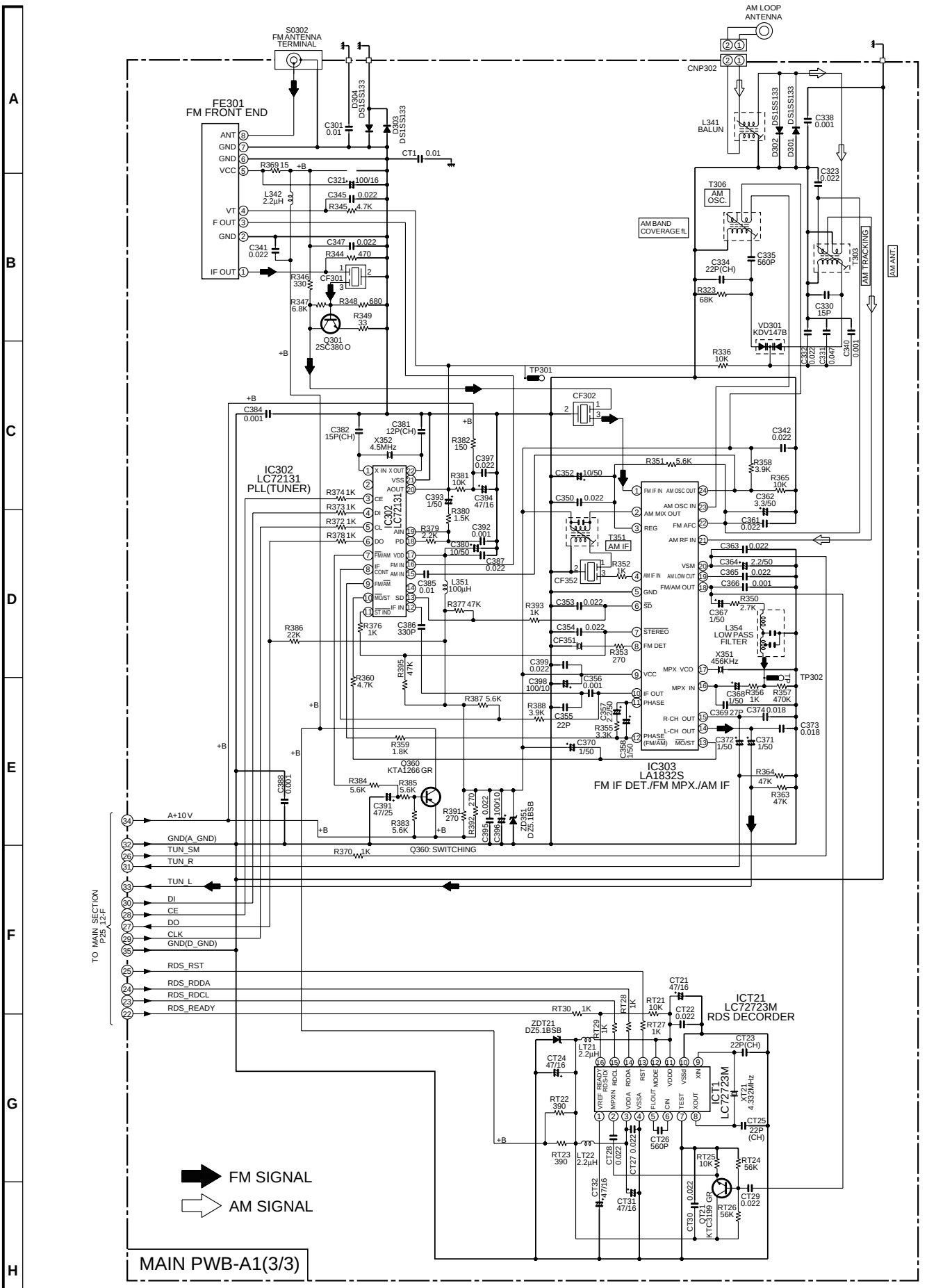
• NOTES ON SCHEMATIC DIAGRAM can be found on page 39.

Figure 28 SCHEMATIC DIAGRAM (7/9)



7	8	9	10	11	12

Figure 29 SCHEMATIC DIAGRAM (8/9)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 39.

Figure 30 SCHEMATIC DIAGRAM (9/9)

VOLTAGE

IC1

PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	1.6 V	41	3.7 V
2	1.0 V	42	3.7 V
3	1.6 V	43	0 V
4	1.8 V	44	0 V
5	3.3 V	45	3.7 V
6	0 V	46	3.2 V
7	1.6 V	47	3.2 V
8	1.6 V	48	3.2 V
9	1.6 V	49	0 V
10	1.6 V	50	0 V
11	1.6 V	51	0 V
12	1.6 V	52	3.2 V
13	1.5 V	53	0 V
14	1.5 V	54	0 V
15	1.5 V	55	0 V
16	1.5 V	56	0 V
17	0.8 V	57	0 V
18	3.2 V	58	3.2 V
19	0 V	59	0 V
20	1.6 V	60	0 V
21	1.6 V	61	0 V
22	1.6 V	62	4.7 V
23	1.6 V	63	0 V
24	0 V	64	4.9 V
25	0 V	65	4.9 V
26	3.2 V	66	4.9 V
27	0 V	67	0 V
28	0 V	68	4.9 V
29	0 V	69	0 V
30	0 V	70	0 V
31	0 V	71	0 V
32	0 V	72	0 V
33	0 V	73	0 V
34	0 V	74	0 V
35	1.6 V	75	0 V
36	0 V	76	3.2 V
37	0 V	77	3.2 V
38	3.2 V	78	3.2 V
39	3.2 V	79	0 V
40	0 V	80	3.2 V

IC101

PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0.57 V
4	2.0 V
5	0.59 V(AC)
6	1.32 V
7	0 V
8	0.59 V
9	3.45 V
10	3.42 V
11	0 V
12	0 V
13	6.92 V
14	4.13 V
15	0 V
16	3.43 V
17	0.59 V
18	0 V
19	2.63 V
20	0.56 V(AC)
21	2.00 V
22	0.57 V
23	0 V
24	0 V

IC302

PIN NO.	VOLTAGE
1	2.55 V
2	0 V
3	0 V
4	0 V
5	0 V
6	5.16 V
7	0 V
8	4.69 V
9	4.02 V
10	4.10 V
11	5.15 V
12	0 V
13	5.15 V
14	0 V
15	0 V
16	2.53 V
17	5.16 V
18	0.90 V
19	0.90 V
20	1.31 V
21	0 V
22	2.55 V

IC904

PIN NO.	VOLTAGE
1	12.21 V
2	0.66 V
3	5.68 V

IC2

PIN NO.	VOLTAGE
1	1.7 V
2	1.7 V
3	1.8 V
4	2.1 V
5	2.1 V
6	2.1 V
7	2.0 V
8	0 V
9	0 V
10	0 V
11	0 V
12	0 V
13	0 V
14	0 V
15	2.1 V
16	2.1 V
17	1.6 V
18	4.9 V
19	3.0 V
20	1.6 V
21	0 V
22	0 V
23	4.9 V
24	4.9 V
25	1.6 V
26	2.1 V
27	2.1 V
28	0 V
29	0 V
30	0 V
31	0 V
32	0 V
33	0 V
34	0 V
35	0 V
36	4.2 V
37	0 V
38	2.1 V
39	2.1 V
40	4.9 V
41	3.7 V
42	3.7 V

IC301

PIN NO.	VOLTAGE
1	0.91 V
2	1.64 V
3	5.40 V
4	1.62 V
5	0 V
6	5.41 V
7	4.65 V
8	5.37 V
9	5.41 V

IC561

PIN NO.	VOLTAGE
1	0.17 V
2	0.2 V
3	0.19 V
4	–13.11 V
5	0.19 V
6	0.2 V
7	0.17 V
8	6.23 V

IC903

PIN NO.	VOLTAGE
1	24.70 V
2	0 V
3	10.04 V

IC303

PIN NO.	VOLTAGE
1	2.09 V
2	5.17 V
3	2.09 V
4	2.08 V
5	0 V
6	5.15 V
7	5.15 V
8	3.02 V
9	5.17 V
10	4.35 V
11	4.01 V
12	4.01 V
13	4.10 V
14	1.18 V
15	1.19 V
16	2.08 V
17	1.79 V
18	1.79 V
19	0 V
20	0.58 V
21	2.60 V
22	2.96 V
23	5.17 V
24	3.64 V

IC601

PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	5.03 V
5	5.00 V
6	5.01 V
7	5.01 V
8	5.03 V
9	5.01 V
10	5.01 V
11	5.01 V
12	5.01 V
13	5.01 V
14	5.01 V
15	5.01 V
16	5.01 V
17	5.03 V
18	5.01 V
19	5.01 V
20	5.00 V
21	5.04 V
22	5.03 V
23	10.03 V
24	0 V

IC562

PIN NO.	VOLTAGE
1	0.25 V
2	0.3 V
3	0.3 V
4	–13.11 V
5	0 V
6	0 V
7	0 V
8	6.23 V

IC902

PIN NO.	VOLTAGE
1	12.56 V
2	24.75 V
3	13.17 V

IC701

PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.77 V	51	5.28 V
2	4.68 V	52	0 V
3	0 V	53	0 V
4	0 V	54	5.25 V
5	4.67 V	55	5.28 V
6	4.72 V	56	5.28 V
7	4.74 V	57	0 V
8	0 V	58	0.31 V
9	5.41 V	59	0 V
10	4.86 V	60	0 V
11	2.3 V	61	0 V
12	2 V	62	0 V
13	0 V	63	0 V
14	4.76 V	64	0 V
15	0 V	65	0 V
16	4.77 V	66	0 V
17	4.7 V	67	–28.82 V
18	0 V	68	–28.82 V
19	5.36 V	69	–28.8 V
20	0.16 V	70	–28.88 V
21	0 V	71	–28.79 V
22	0 V	72	–28.8 V
23	0 V	73	–16.2 V
24	0 V	74	–18.74 V
25	0 V	75	–26.3 V
26	2.3 V	76	–23.77 V
27	0.22 V	77	0 V
28	0 V	78	–21.2 V
29	0 V	79	–28.9 V
30	0 V	80	–26.2 V
31	5.03 V	81	–26.3 V
32	5.03 V	82	–26.3 V
33	5.03 V	83	–21.26 V
34	4.77 V	84	–28.83 V
35	5.04 V	85	0 V
36	2.48 V	86	0 V
37	0 V	87	–18.73 V
38	0 V	88	0 V
39	4.92 V	89	0 V
40	0 V	90	–26.26 V
41	5.67 V	91	–26.26 V
42	12.5 V	92	–26.24 V
43	12.52 V	93	–26.32 V
44	12.5 V	94	–26.3 V
45	3.8 V	95	–26.29 V
46	4.78 V	96	–26.3 V
47	4.76 V	97	–26.3 V
48	4.5 V	98	–26.3 V
49	5.04 V	99	–26.28 V
50	5.28 V	100	–26.3 V

IC901

PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	50.1 V
5	–48.8 V
6	0 V
7	0 V
8	51.6 V
9	–51.5 V
10	0 V
11	0 V
12	–50.1 V
13	0 V
14	0 V
15	0 V

ICT1

PIN NO.	VOLTAGE
1	2.58 V
2	2.58 V
3	5.16 V
4	0 V
5	2.58 V
6	2.58 V
7	0 V
8	2.62 V
9	2.48 V
10	0 V
11	5.16
12	5.16 V
13	0 V
14	0 V
15	4.76 V
15	0 V

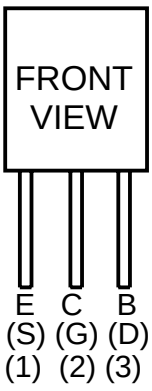
NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     indicates AM
     indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “ ⚠ ” (⊏ ═ ═ ═ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

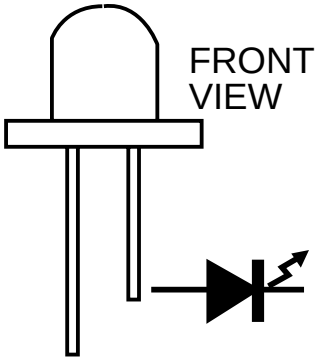
REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW701	ON/STAND-BY	ON—OFF
SW702	CLOCK	ON—OFF
SW703	TIMER	ON—OFF
SW704	RTY	ON—OFF
SW705	EON	ON—OFF
SW706	ASPM	ON—OFF
SW707	DISPLAY MODE	ON—OFF
SW712	DISC SKIP	ON—OFF
SW713	OPEN/CLOSE	ON—OFF
SW714	DIMMER	ON—OFF
SW715	X-BASS	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW716	EQUALIZER	ON—OFF
SW717	VOLUME UP	ON—OFF
SW718	VOLUME DOWN	ON—OFF
SW720	CD	ON—OFF
SW721	TAPE	ON—OFF
SW722	TUNING DOWN	ON—OFF
SW723	MEMORY/SET	ON—OFF
SW724	FAST REWIND	ON—OFF
SW725	FAST FORWARD	ON—OFF
SW726	PLAY	ON—OFF
SW727	STOP	ON—OFF
SW729	REC/PAUSE	ON—OFF
SW730	TUNING UP	ON—OFF
SW731	VIDEO	ON—OFF
SW732	TUNER	ON—OFF

TYPES OF TRANSISTOR AND LED



KTA1266 GR	2SC380 O
KRC102 M	KTA1273 Y
KRC104 M	KTC3203 Y
KTA1271 Y	KTC3199 GR
KTA1274 Y	KRA107 M
2SC1845 F	KRC107 M

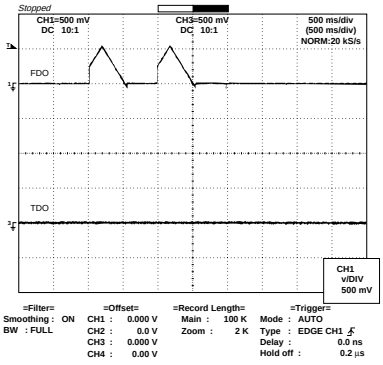


SLR342VCJ1

WAVEFORMS OF CD CIRCUIT

1 IC1 (21)

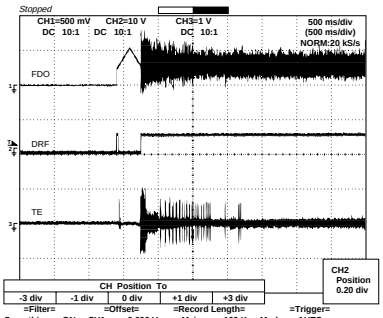
2 IC1 (20)


Stopped
CH1=500 mV DC 10:1
CH3=500 mV DC 10:1
500 ms/div (500 ms/div) NORM:20 kS/s
FDO
TDO
CH1 v/DIV 500 mV
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.0 V CH3 : 0.000 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : AUTO Type : EDGE CH1 Delay : 0.0 ns Hold off : 0.2 µs

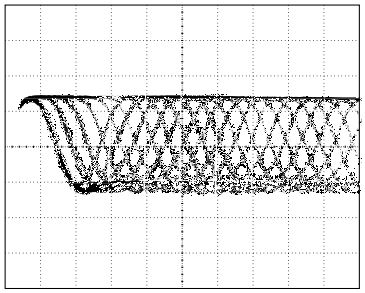
1 IC1 (21)

3 IC1 (67)

4 IC1 (15)

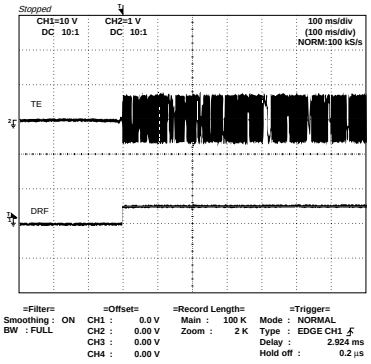

Stopped
CH1=500 mV DC 10:1
CH2=10 V DC 10:1
CH3=1 V DC 10:1
500 ms/div (500 ms/div) NORM:20 kS/s
FDO
DRF
TE
CH Position To
-3 div -1 div 0 div +1 div +3 div
CH2 Position 0.20 div
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.0 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : AUTO Type : EDGE CH1 Delay : 0.0 ns Hold off : 0.2 µs

5 IC1 (4)



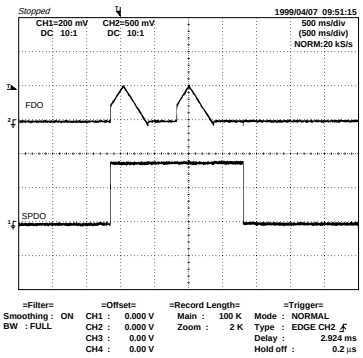
4 IC1 (15)

3 IC1 (67)


Stopped
CH1=10 V DC 10:1
CH2=1 V DC 10:1
100 ms/div (100 ms/div) NORM:100 kS/s
TE
DRF
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.0 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : NORMAL Type : EDGE CH1 Delay : 2.924 ms Hold off : 0.2 µs

1 IC1 (21)

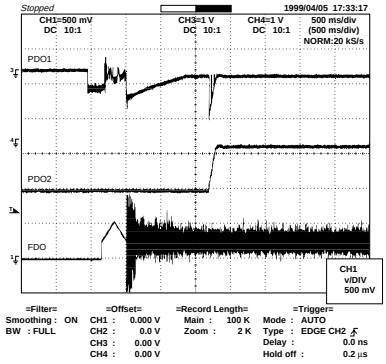
6 IC1 (22)


Stopped
1999/04/07 09:51:15
CH1=200 mV DC 10:1
CH2=500 mV DC 10:1
500 ms/div (500 ms/div) NORM:20 kS/s
FDO
SPDO
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.000 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : NORMAL Type : EDGE CH2 Delay : 2.924 ms Hold off : 0.2 µs

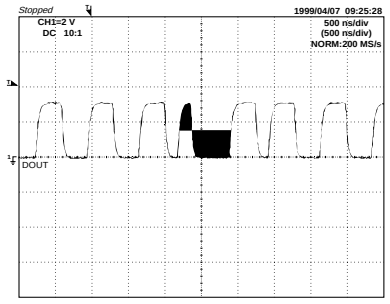
7 IC1 (73)

8 IC1 (74)

1 IC1 (21)


Stopped
1999/04/05 17:33:17
CH1=500 mV DC 10:1
CH3=1 V DC 10:1
CH4=1 V DC 10:1
500 ms/div (500 ms/div) NORM:20 kS/s
PDO1
PDO2
FDO
CH1 v/DIV 500 mV
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.0 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : AUTO Type : EDGE CH2 Delay : 0.0 ns Hold off : 0.2 µs

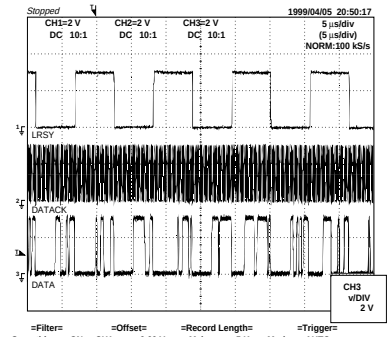
9 IC1 (39)


Stopped
1999/04/07 09:25:28
CH1=2 V DC 10:1
500 ns/div (500 ns/div) NORM:200 MS/s
DOUT
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.00 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 1 K Zoom : 100
=Trigger= Mode : NORMAL Type : EDGE CH1 Delay : 2.887 ms Hold off : 0.2 µs

10 IC1 (58)

11 IC1 (59)

12 IC1 (60)


Stopped
1999/04/05 20:50:17
CH1=2 V DC 10:1
CH2=2 V DC 10:1
CH3=2 V DC 10:1
5 µs/div (5 µs/div) NORM:100 kS/s
LRSY
DATACK
DATA
CH3 v/DIV 2 V
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.00 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 5 K Zoom : 100
=Trigger= Mode : AUTO Type : EDGE CH3 Delay : 0.0 ns Hold off : 0.2 µs

TROUBLE SHOOTING

When the CD does not function

When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.
Remove the cabinet and follow the trouble shooting instructions.
"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

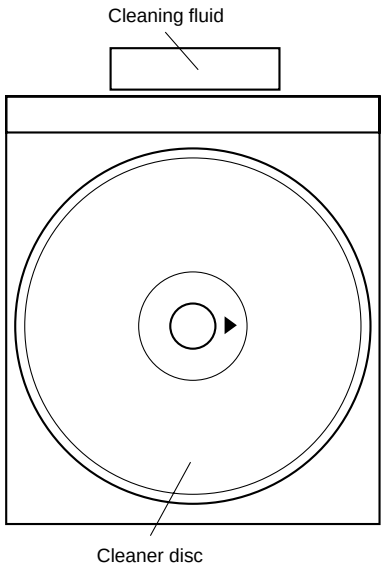
Turn off the power, and wipe the lens softly using a cleaning paper moistened with commercially available cleaning solution so as not to damage it. Be careful not to touch the lens with bare hands.

Dust gradually accumulates on the objective lens during use, and it may degrade performance. To avoid this problem, use a cleaning disc designed for CD optical pickup lenses.

		Parts code
1.	CD optical pickup Lens cleaner disc.	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down,then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continuous to turn, press the stop button.



CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.

When a CD cannot be played

1. "E-CD01" is displayed.

(1) Check the power to IC1 (LC78645E), the presence of the clock signal (33.8688 MHz) and the status of the RESET terminal (pin 66 on IC1).
(2) Does the pickup move to the PICKUP-IN Switch (SW4) position ?

If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

2. Pressing the CD operation key is accepted, but playback does not occur.

(1) Focus-HF system check.
(2) Tracking system check.
(3) Spin system check.
(4) PLL system check.
(5) Others.

(1) Focus-HF system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the OPEN/CLOSE switch (SW1) without inserting a disc, and try starting the playback operation.

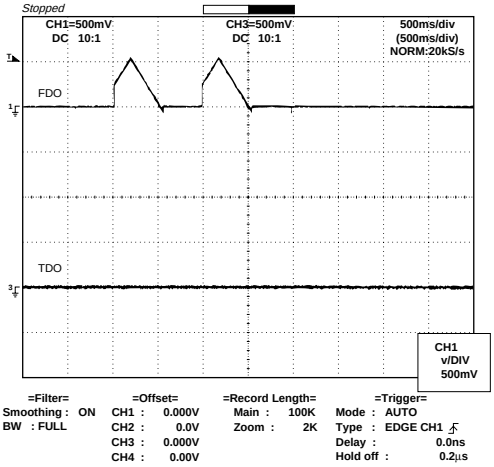


Figure 42-1

1. Does the pickup move to the PICKUP-IN Switch (SW4) position ?
   - No → Sled motor (M2).
   - Yes ↓
2. Does the focus (lens) move up and down ? (Waveform drawing Figure 42-1)
   - No → Check the focus peripheral circuit.
   - Yes ↓
3. Is the laser lit ?
   - No → Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓
4. Is the turntable rotating ?
   - No → Spindle motor (M1).

When a disc is loaded, start playback operation.

1. Is focus servo activated ? (Waveform drawing Figure 42-2)
   - No → Pins 7~12, 79 and 80 on IC1. Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓
2. Does DRF change from "L" to "H" ?
   - No → Is the disc rotating ?
     - No → Check the spin system.
     - Yes → If the disc is spinning and a HF waveform is generated, DRF will go H.
   - Yes ↓
3. Is the HF waveform normal ? (Waveform drawing Figure 42-3)
   - No → If the level is not normal.

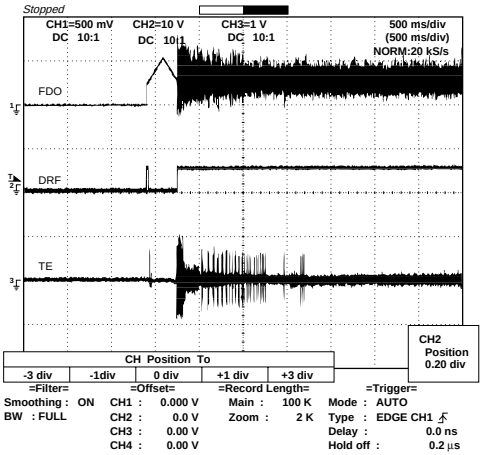


Figure 42-2

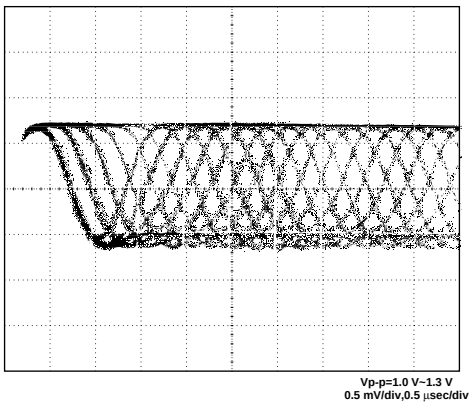


Figure 42-3

(2) Tracking system check.

Check the TE waveform at pin 15 on IC1.

If the waveform shown in Figure 43-1 appears and soon after NO DISC appears ?
- Yes → The tracking servo is not activated. Check the peripheral circuits at pins 14, 15 and 20 on IC1, and CNS1A/B.
- No ↓

"Initialization" is possible, but play is not possible ?
- Yes → A normal jump operation cannot be completed or the beginning of the track cannot be found. Check the around pin 20 on IC1.
- No ↓

"Initialization" is not possible. → Data cannot be read. Check the VCO-PLL system.

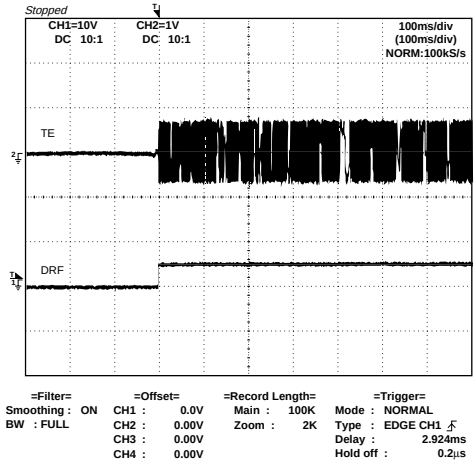


Figure 43-1

(3) Spin system check.

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

1. The turntable rotates a little ? (Waveform drawing Figure 43-2)
- Yes → The spin driver circuit is OK.
- No ↓

2. The turntable doesn't rotate. → Check around pin 22 on IC1, pins 15 and 16 on IC3, and CNS3A/B.

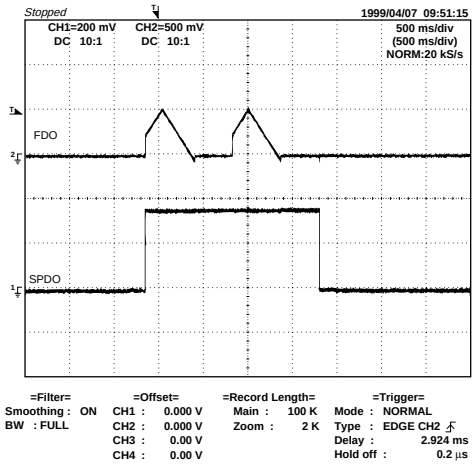


Figure 43-2

(4) PLL system check.

When a disc is loaded, start play operation.

↓

The HF waveform is normal, but the TOC data cannot be read.

↓

Check the PDO waveform. (Figure 44-1)

↓

Check around pins 73~78 on IC1.

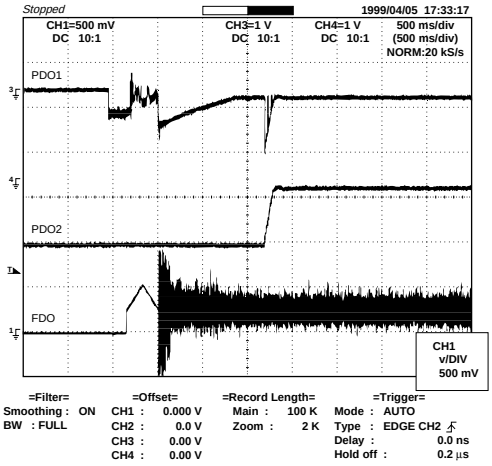


Figure 44-1

(5) Others.

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.

Is pin 52 (C2F) on IC1 "L" ?

No → There are too many error flags on a damaged disc which makes error correction impossible.

↓

Check again using a known good disc.

Yes

↓

1. When playing at normal speed.
   Check the peripheral circuit at pin 39 (DOUT) on IC1 and the waveform (Figure 44-2).

↓

If OK, Check the unit.

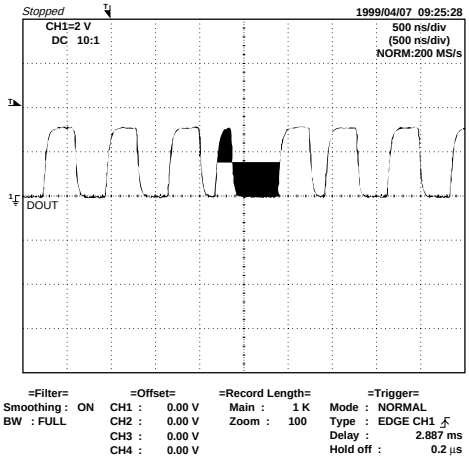


Figure 44-2

FUNCTION TABLE OF IC

IC1 VHiLC78645E-1: CD Servo (LC78645E) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
1	SLC0	Output	–	For slice level control.	Control output.
2	SLCIST	Input	–		Resistor connection terminal for SLCO output current setting.
3	EFMIN	Input	–		RF signal input terminal.
4	RF	Output	–	RF signal monitor terminal.	
5	RFVDD	Input	–	RF power terminal.	
6	RFVSS	–	–	RF earth terminal. To be connected to 0 V.	
7	FIN1 A	Input	–	A+C signal input terminal.	
8	FIN2 B	Input	–	B+D signal input terminal.	
9	TIN1 E	Input	–	E signal input terminal.	
10	TIN2 F	Input	–	F signal input terminal.	
11	VREF	Output	RFVDD/2	VREF voltage output terminal.	
12	REF1	Input	–	Reference supply setting terminal.	
13*	FE	Output	ZHI	FE signal monitor terminal.	
14	TEC	Output	–	LPF capacitor connection terminal for TE signal.	
15*	TE	Output	ZHI	TE signal monitor terminal.	
16*	RFMON	Output	ZHI	RF internal signal monitor terminal.	
17	JITTC	–	–	Capacitor connection terminal for jitter detection.	
18	ADAVDD	Input	–	Power terminal for servo A/D, D/A.	
19	ADAVSS	–	–	Earth terminal for serve A/D, D/A. To be connected to 0 V.	
20	TD0	Output	ADAVDD/2	Output terminal for tracking control. D/A output.	
21	FD0	Output	ADAVDD/2	Output terminal for focus control. D/A output.	
22	SPD0	Output	ADAVDD/2	Output terminal for spindle control. D/A output.	
23	SLD0	Output	ADAVDD/2	Output terminal for sled control. D/A output.	
24*	GPDAC	Output	ADAVDD/2	Servo D/A general-purpose output terminal.	
25	CONT4	Input/Output	Input Mode	General-purpose I/O terminal 4.	Controlled by commands from the microcomputer. When not used, set them as input terminals and connect to 0 V, or set them as output terminals and leave open.
26	CONT5	Input/Output	Input Mode	General-purpose I/O terminal 5.	
27*	SBCK/CONT6	Input/Output	Input Mode	General-purpose I/O terminal 6 or Subcode reading clock input terminal.	
28	SBCK/FG	Input	–	Subcode reading clock input terminal/FG signal input terminal/external emphasis setting terminal. Terminal functions are set by commands. When not used, connect to 0 V.	
29*	DEFECT	Output	L	Defect terminal.	
30*	V/*P	Output	H	Auto switching monitor output terminal for rough servo phase control. “H”: rough servo, “L”: phase servo.	
31*	FSEQ	Output	L	Sync signal detection output terminal. The status changes to “H” when the sync signal detected in EFM and the sync signal of internal generation are identified.	
32*	MONI1	Output	L	Internal signal monitor terminal 1.	
33*	MONI2	Output	L	Internal signal monitor terminal 2.	
34*	MONI3	Output	L	Internal signal monitor terminal 3.	
35*	MONI4	Output	L	Internal signal monitor terminal 4.	
36*	MONI5	Output	L	Internal signal monitor terminal 5.	
37	VSS	–	–	Digital system earth terminal. To be connected to 0 V.	
38	VDD	Input	–	Digital system power terminal.	
39*	DOUT	Output	L	Digital OUT output terminal. (EIAJ format)	
40	TEST	Input	L	Input terminal for test. To be connected to 0 V.	
41	LVDD	Input	–	Left channel D/A converter	Power supply for Left channel.
42	LCHO	Output	LVDD/2		Left channel output.
43	LVSS	–	–		GND for Left channel. Must be connected to 0 V.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

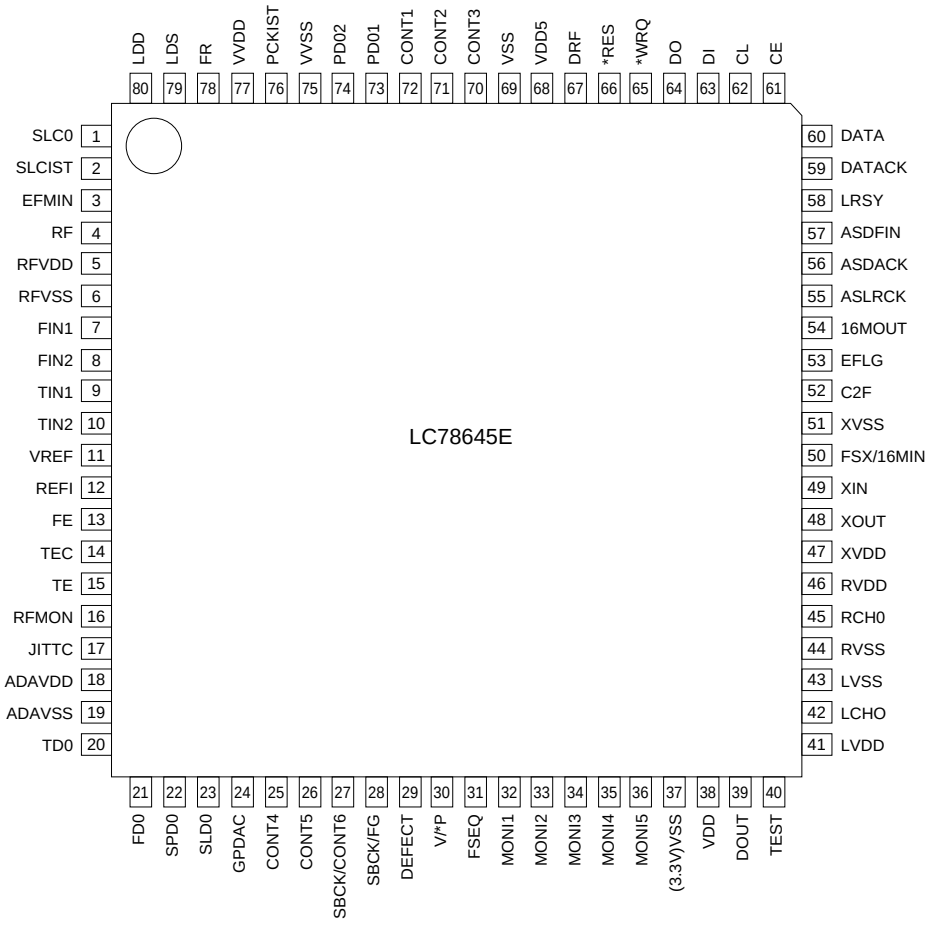
IC1 VHiLC78645E-1: CD Servo (LC78645E) (2/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
44	RVSS	–	–	Right channel D/A converter	GND for Right channel. Must be connected to 0 V.
45	RCHO	Output	LVDD /2		Right channel output.
46	RVDD	Input	–		Power supply for Right channel.
47	XVDD	Input	–	Crystal Oscillator	Power supply for crystal oscillator.
48	XOUT	Output	–		Connected for the 33.8688 MHz crystal oscillator cement.
49	XIN	Input	–		
50	FSX/16MIN	Input/Output	Input	7.35 kHz Synchronization signal monitor port. or Clock input port for Digital filter & D/A	
51	XVSS	–	–	Crystal Oscillator	GND for crystal oscillator. Must be connected to 0 V.
52*	C2F	Output	H	C2 FLAG monitor port.	
53*	EFLG	Output	L	C1, C2 error corrected monitor port.	
54*	16MOUT	Output	Clock	16.9344 MHz output port.	
55	ASLRCK	Input	–	Anti-shock	Word clock input port. (If this port does not use, must be connect to 0 V.)
56	ASDACK	Input	–		Bit clock input port. (If this port does not use, must be connect to 0 V.)
57	ASDFIN	Input	–		Left/Right channel data input port. (If this port does not use, must be connect to 0 V.)
58*	LRSY	Output	L	Digital data	Word clock output port.
59*	DATACK	Output	L		Bit clock output port.
60*	DATA	Output	L		Left/Right channel data output port.
61	CE	Input	–	Microcomputer Interface	Chip enable signal input port.
62	CL	Input	–		Data transfer clock input port.
63	DI	Input	–		Data input port.
64	DO	Output	(H)		Data output port. (N-ch. open drain output.)
65	*WRQ	Output	H		Interruption signal output.
66	*RES	Input	–	Chip reset signal input port. This port must be set LOW after first applied power on.	
67	DRF	Output	L	Focus detection output port.	
68	VDD5	Input	—	Power supply for Microprocessor.	
69	VSS	–	–	GND for digital circuit. Must be connected to 0 V.	
70	CONT3	Input/Output	Input	General purpose port 1.	Controlled with serial data command from micro-computer. When not used, General purpose input/ output terminal 7. Set it as the input terminal and open it by connecting to 0 V, or set it as the output terminal and open it.
71	CONT2	Input/Output	Input	General purpose port 2.	
72*	CONT1	Input/Output	Input	General purpose port 3.	
73	PDO1	Output	—	PLL	Internal VCO control phase comparator output port 1.
74	PDO2	Output	Input		Internal VCO control phase comparator output port 2.
75	VVSS	—	—		GND for internal VCO. Must be connected to 0 V.
76	PCKIST	Input	—		PDO output current adjustment resistor connection port.
77	VVDD	Input	—		Power supply for internal VCO.
78	FR	Input	—		VCO frequency range adjustment port.
79	LDS	Input	—	LASER power detected signal input port.	
80	LDD	Output	—	LASER power control signal output port.	

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

Be sure to supply the same potential to each power terminal. (VVDD, ADAVDD, VDD, LVDD, RVDD, XVDD)
Terminal witch is controlled by the power terminal (VDD5 V) for a microcomputer interface :
CE (61pin), CL (62pin), DI (63pin), DO (64pin), WRQ (65pin), RES (66pin), DRF (67pin), CONT2 (71pin), CONT3 (70pin).

IC1 VHiLC78645E-1: CD Servo (LC78645E)



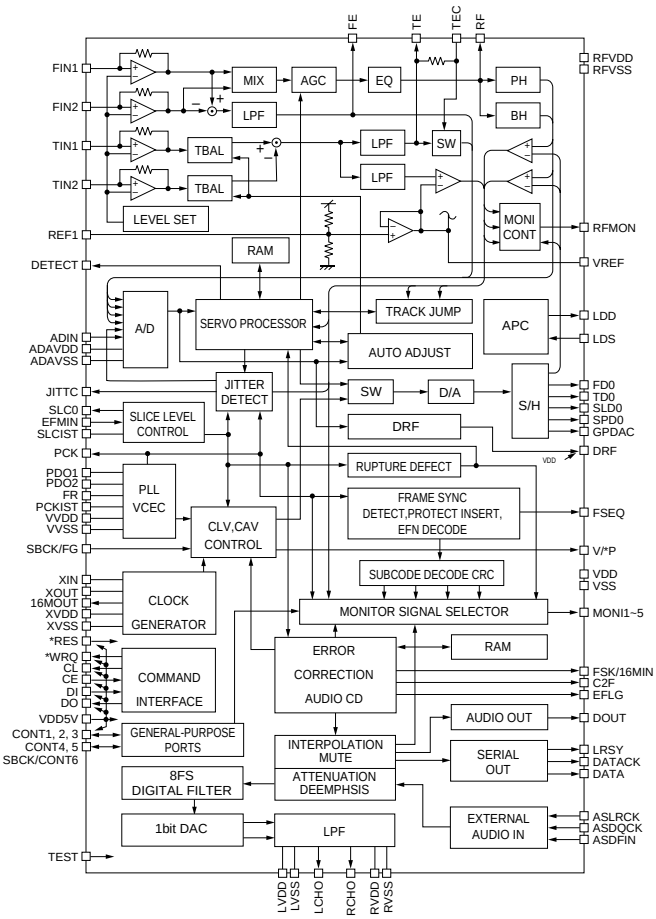


Figure 47 BLOCK DIAGRAM OF IC

IC701 RH-iX0401AWZZ: System Microcomputer (IX0401AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	Input	(+) POWER SUPPLY.
2	P37	-20 dB ATT	Output	-20 dB ATTENUATOR.
3	P36	NO USE	Output	GND
4	P35	T_BIAS	Output	TAPE RECORD BIAS.
5	P34	T_T1/T2	Output	TAPE T1/T2 CHANGE.
6	P33	REC/PLAY	Output	TAPE REC/PLAY CHANGE.
7	P32	RES OUT	Output	CD DSP RESET&MPEG MICROCOMPUTER RESET.
8	P31	DRF	Input	CD RF LEVEL DETECTION.
9	P30	WRQ	Input	CD DSP WRITE REQUEST.
10	RESET	RESET	Input	RESET
11	X2	X2	Output	MAIN CLOCK.
12	X1	X1	Input	MAIN CLOCK.
13	VPP/IC	VPP/IC	—	GND
14*	XT2	XT2	—	OPEN
15*	P04	SPAN	Input	TUNER SPAN CHANGE.
16	VDD	VDD	Input	(+) POWER SUPPLY.
17	P27	CD CLK	Output	CD DSP CLOCK.
18	P26	CD DI	Output	CD DSP COMMAND.
19	P25	CD DO	Input	CD DSP CODE Q OUT.
20	P24	CD CE	Output	CD DSP CE OUTPUT.
21	P23	CE	Output	CE OUTPUT.
22	P22	CLK	Output	CLOCK OUTPUT.
23	P21	DI	Output	DATA OUTPUT.
24	P20	DO	Input	DATA INPUT.
25	AVSS	AVSS	—	ANALOG GROUND.
26	ANI7	O/C SW	Input	CD OPEN/CLOSE SWITCH.
		DISC NO SW	Input	CD DISC NUMBER SWITCH.
27	ANI6	TUNER SM	Input	TUNER SIGNAL METER INPUT.
28	ANI5	SPEANA2	Input	SPEANA DATA INPUT 16 kHz.
29	ANI4	SPEANA1	Input	SPEANA DATA INPUT 1 kHz.
30	ANI3	SPEANA0	Input	SPEANA DATA INPUT 63 kHz.
31-33	ANI2-ANI0	KEY 2-KEY 0	Input	KEY INPUT.
34	AVDD	AVDD	Input	ANALOG VDD.
35	AVREF	AVREF	Input	ANALOG REF VOLTAGE.
36	INTP3	P_IN	Input	POWER FAILURE DETECT.
37	P02	JOG 1	—	GND
38	P01	JOG 0	—	GND
39	INTP0	REMOCON	Input	REMOCON INPUT.
40	VSS	VSS	—	GROUND VOLTAGE.
41	P74	SMUTE	Output	SYSTEM MUTE CONTROL.
42	P73	T_SOL B	Output	TAPE 2 SOLENOID CONTROL.
43	P72	T_SOL A	Output	TAPE 1 SOLENOID CONTROL.
44	P71	T_MOTOR	Output	TAPE MOTOR CONTROL.
45	P70	TIMER LED	Output	TIMER LED CONTROL.
46	VDD	VDD	Input	(+) POWER SUPPLY.
47	P127	AC RLY_CONT	Output	AC RELAY CONTROL.
48	P126	SP_RLY	Output	SPEAKER OUTPUT RELAY CONTROL.
49	P125	SPK_DET	Input	SPEAKER OUTPUT DETECTION.
50	P124	T 1 RUN	Input	TAPE 1 RUN PULSE INPUT.
51	P123	T 2 RUN	Input	TAPE 2 RUN PULSE INPUT.
52	P122	CD CLAMP SW	Input	CD CHANGER CLAMP SWITCH.

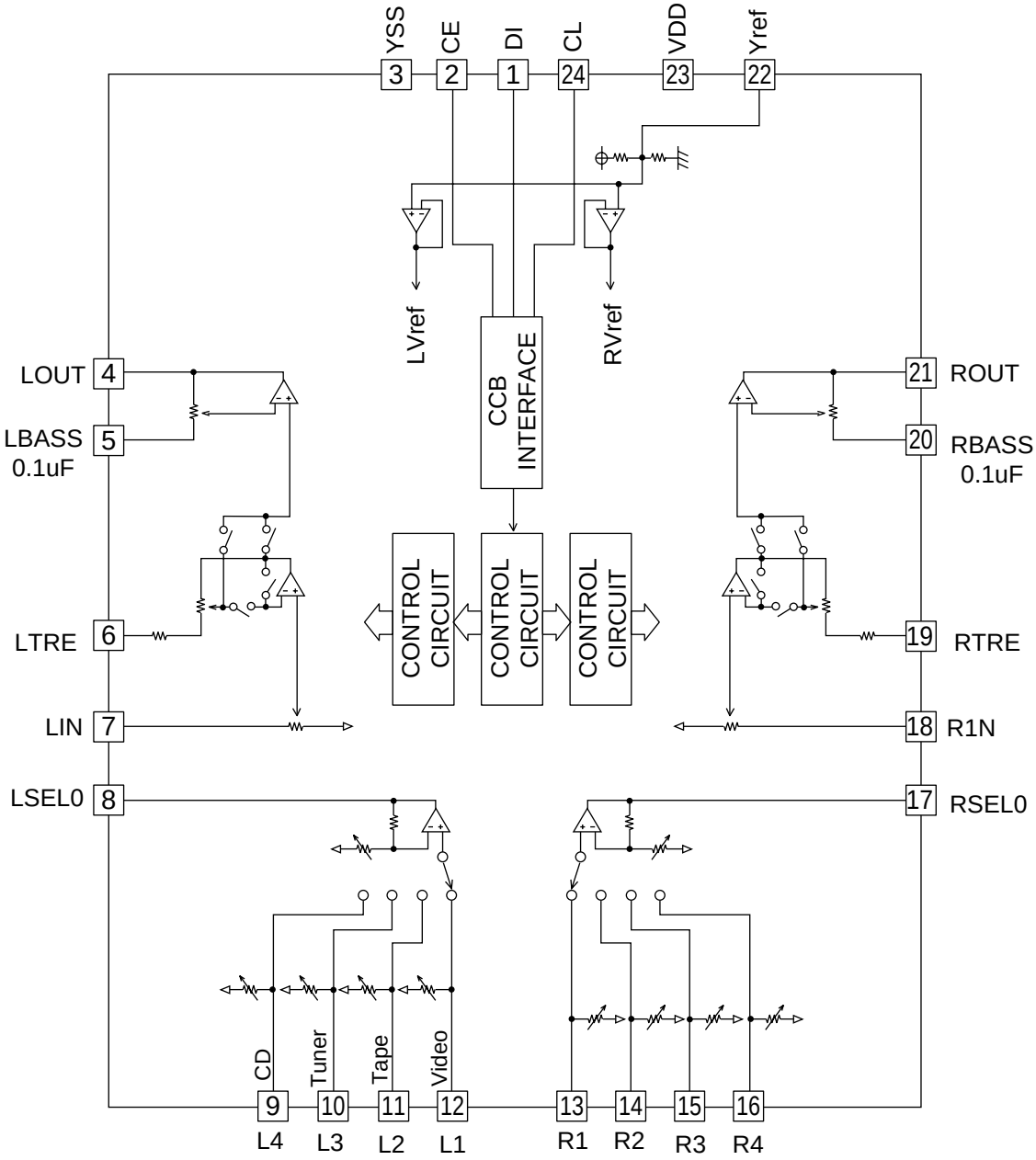
In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iX0401AWZZ: System Microcomputer (IX0401AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
53	P121	NO USE	Input	GND
54	P120	PLAY SW_B	Input	PLAY SWITCH FOR T 2.
55	P117	FPA	Input	TAPE 2 A-SIDE FULL PROOF.
56	P116	FPB	Input	TAPE 2 B-SIDE FULL PROOF.
57*	P115	MIC SW	Input	MIC SWITCH.
58*	P114	LCK 0	Output	LED DRIVER LCK.
59	P113	DISTOUT/SW OUT	Output	DESTINATION OUTPUT.
60	FIP39	NO USE	Output	GND
61*	FIP38	KARAOKE LATCH	Output	KARAOKE LATCH. (WHEN NOT USED. CONNECT TO 0 V)
62	FIP37	NO USE	Output	GND
63	FIP36	RDS RST	Output	RDS FAN RESET.
64	FIP35	RDS RDDA	Input	RDS TRANSMIT DATA INPUT
65	FIP34	RDS RDCL	Output	RDS CLOCK
66	FIP33	RDS READY	Input	RDS READY
67	P103	DIST3	Input	DESTINATION INPUT.
	FIP32	P22	Output	FL DISPLAY DRIVER.
68	P102	DIST2	Input	DESTINATION INPUT.
	FIP31	P21	Output	FL DISPLAY DRIVER.
69	P101	DIST1	Input	DESTINATION INPUT.
	FIP30	P20	Output	FL DISPLAY DRIVER.
70	P100	DIST0	Input	DESTINATION INPUT.
	FIP29	P19	Output	FL DISPLAY DRIVER.
71-78	FIP28-FIP21	P18-P11	Output	FL DISPLAY DRIVER.
79	VLOAD	VLOAD	Input	FL DRIVER (-) POWER SUPP. -30 V
80-89	FIP20-FIP11	P10-P1	Output	FL DISPLAY DRIVER.
90-100	FIP10-FIP0	G11-G1	Output	FL DISPLAY DRIVER.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC601 VHiLC75341/-1: Audio Processor (LC75341)



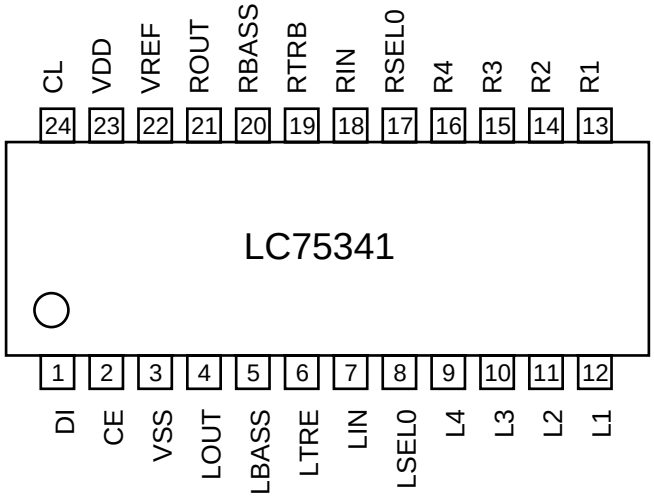
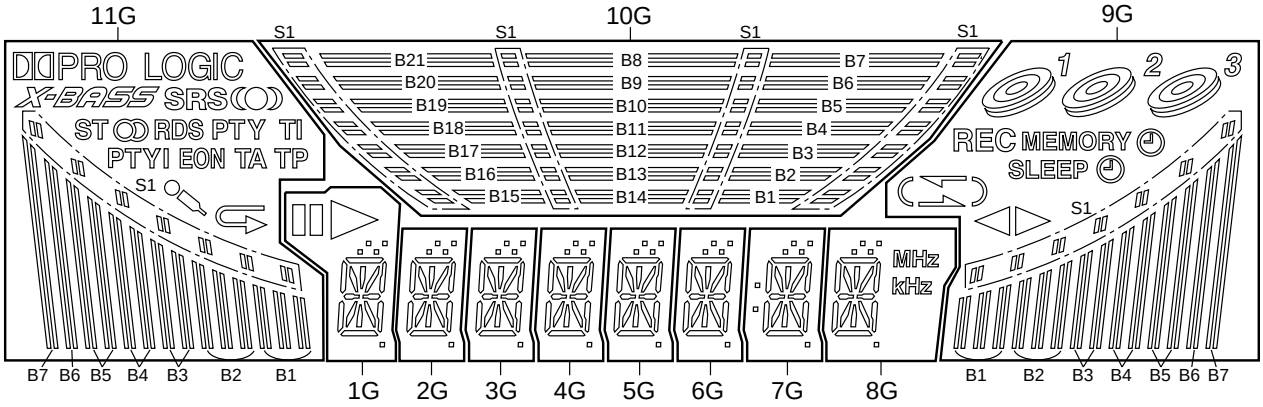
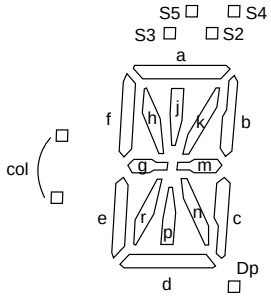


Figure 50 BLOCK DIAGRAM OF IC

FL DISPLAY

FL701 VVKBJ11LM02T1: FL Display





	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	S1	S1	S1	Dp	Dp	Dp	Dp	Dp	Dp	Dp	Dp
P2	B1	B1	B1	d	d	d	d	d	d	d	d
P3	B2	B2	B2	c	c	c	c	c	c	c	c
P4	B3	B3	B3	n	n	n	n	n	n	n	n
P5	B4	B4	B4	p	p	p	p	p	p	p	p
P6	B5	B5	B5	r	r	r	r	r	r	r	r
P7	B6	B6	B6	e	e	e	e	e	e	e	e
P8	B7	B7	B7	m	m	m	m	m	m	m	m
P9		B8	1	g	g	g	g	g	g	g	g
P10	X-BASS	B9	2		col						
P11		B10	3	b	b	b	b	b	b	b	b
P12	ST	B11	REC	k	k	k	k	k	k	k	k
P13		B12	MEMORY	j	j	j	j	j	j	j	j
P14	RDS	B13	(Hiper)	h	h	h	h	h	h	h	h
P15	PTY	B14	(Lower)	f	f	f	f	f	f	f	f
P16	TI	B15	SLEEP	a	a	a	a	a	a	a	a
P17	TP	B16		S2	S2	S2	S2	S2	S2	S2	S2
P18	TA	B17		S3	S3	S3	S3	S3	S3	S3	S3
P19	PTYI	B18		S4	S4	S4	S4	S4	S4	S4	S4
P20	EON	B19		S5	S5	S5	S5	S5	S5	S5	S5
P21		B20		MHz							
P22		B21		kHz							

WIRING OF PRIMARILY SUPPLY LEADS (CD-BA250H FOR U.K. ONLY)

If any one of the bands shown in Fig. 52 is removed for some reason, be sure replace it to the original position and same appearance as before.

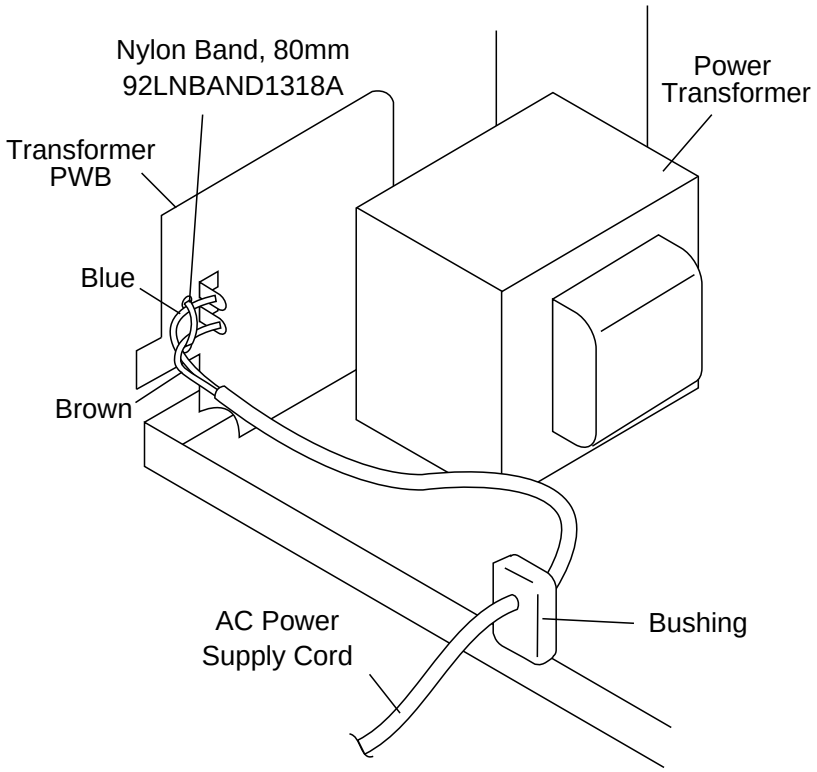


Figure 52

SHARP PARTS GUIDE

MINI COMPONENT SYSTEM

MODEL CD-BA250H

CD-BA250H Mini Component System consisting of CD-BA250H (main unit) and CP-BA250H (speaker system).

MINI COMPONENT SYSTEM

MODEL CD-BA2600H

CD-BA2600H Mini Component System consisting of CD-BA2600H (main unit) and CP-BA2600H (speaker system).

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-BA250H/CD-BA2600H

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

CD-BA250H/CD-BA2600H

INTEGRATED CIRCUITS

IC1	VHILC78645E-1	J	AY	CD Servo,LC78645E
IC2	VHIM63001FP-1	J	AX	Focus/Tracking/Spin/Sled Driver, M63001FP
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832S/-1	J	AN	FM IF Det./FM Mpx./AM IF, LA1832S
IC561,562	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC601	VHILC75341/-1	J	AM	Audio Processor,LC75341
IC701	RH-IX0401AWZZ	J	AW	System Microcomputer, IX0401AW
IC901	VHISTK4029S-1	J	BA	Power Amp.,STK4029S
IC902	VSKTC2026//-1	J	AF	Silicon,NPN,KTC2026
IC903	VHIKIA7810AP1	J	AF	Voltage Regulator,KIA7810AP
IC904	VHIKIA7805AP1	J	AF	Constant Voltage Regulator, KIA7805AP
IC905	VHIAN78L05/-1	J	AE	Constant Voltage Regulator, AN78L05
ICT1	VHILC72723/-1	J	AR	RDS Decorder,LC72723

TRANSISTORS

Q1	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q2	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q3	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q101~104	VS2SC1845F/-1	J	AC	Silicon,NPN,2SC1845 F
Q105~108	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q109	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q110	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q111	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q112	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q113,114	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q301	VS2SC380-O/-1	J	AC	Silicon,NPN,2SC380 O
Q360	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q601~604	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q701~703	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q706	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q707,708	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q709	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q801	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q901	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q902~905	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q906	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q907	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q908	VSKRA107M//-1	J	AE	Digital,PNP,KRA107 M
Q914	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QT21	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR

DIODES

D1,2	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D301~304	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D561~563	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D690,691	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D703	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D709~717	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D801	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D802~805	VHDDS1N404S-1	J	AB	Silicon,DS1N404S
D806	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D901	VHDTS6B04GM-1	J	AP	Silicon,TS6B04GM
D902~908	VHDDS1N404S-1	J	AB	Silicon,DS1N404S
D911~916	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D917	VHDDS1N404S-1	J	AB	Silicon,DS1N404S
LED701	VHPSLR342VCJ1	J	AC	LED,Red,SLR342VCJ1
ZD1	VHEDZ3R3BSB-1	J	AB	Zener,3.3V,DZ3.3BSB
ZD2	VHEDZ3R9BSB-1	J	AC	Zener,3.9V,DZ3.9BSB
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD561	VHEDZ6R2BSB-1	J	AC	Zener,6.2V,DZ6.2BSB
ZD901	VHEDZ330BSD-1	J	AC	Zener,33V,DZ330BSB
ZD902	VHEDZ110BSB-1	J	AB	Zener,11V,DZ110BSB
ZD903	VHEDZ6R2BSA-1	J	AB	Zener,6.2V,DZ6.2BSA
ZD904	VHEDZ130BSB-1	J	AB	Zener,13V,DZ130BSB
ZD905	VHEDZ2R4BSB-1	J	AB	Zener,2.4V,DZ2.4BSB
ZDT21	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB

FILTERS

CF301,302	RFILF0072AFZZ	J	AG	FM IF
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF

TRANSFORMERS

⚠	PT801	RTRNP0351AWZZ	J	BE	Power,Main
⚠	PT802	RTRNP0313AWZZ	J	AN	Power,Sub
	T303	RCILA0052AWZZ	J	AE	AM Tracking
	T306	RCILB0067AWZZ	J	AD	AM OSC.
	T351	RCILI0019AWZZ	J	AD	AM IF

COILS

	L1	VP-XHR82K0000	J	AC	0.82 µH
	L101,102	VP-MK2R2K0000	J	AC	2.2 mH
	L103	VP-MK331K0000	J	AB	330 µH,Choke
	L341	RBLN-0002AWZZ	J	AE	Balum
	L342	VP-DH2R2K0000	J	AB	2.2 µH,Peaking
	L351	VP-DH101K0000	J	AB	100 µH,Choke
	L354	RFILL0001AWZZ	J	AE	Low Pass Filter
	L701	VP-DH101K0000	J	AB	100 µH,Choke
	L702	VP-DH2R2K0000	J	AB	2.2 µH,Peaking
⚠	L801	RCILZ0022AWZZ	J	AG	Line Filter
	L920,921	RCILZ0137AFZZ	J	AA	0.29 µH
	LT21,22	VP-XH2R2K0000	J	AB	2.2 µH,Choke

VARIABLE CAPACITOR

VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S

VIBRATORS

X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0015AWZZ	J	AF	Crystal,4.5 MHz
XL1	RCRM-0041AWZZ	J	AF	Ceramic,33.8688 MHz
XL700	RCRSP0003AWZZ	J	AH	Crystal,4.194304 MHz
XT21	RCRSP0018AWZZ	J		Crystal,4.332 MHz

CAPACITORS

C1	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C2	VCTYMN1CY103N	J	AA	0.01 µF,16V
C3	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C4	VCKYMN1HB102K	J	AA	0.001 µF,50V
C5	VCQYKA1HM473J	J	AB	0.047 µF,50V,Mylar
C6	VCTYPA1CX104K	J	AB	0.1 µF,16V
C7	VCKYMN1HB101K	J	AA	100 pF,50V
C8	VCTYMN1CX472K	J	AA	0.0047 µF,16V
C9	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C10	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C11	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
C12	VCCSPA1HL101J	J	AA	100 pF,50V
C13	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C14	RC-EZY107AF1A	J	AB	100 µF,10V,Electrolytic
C16	VCEAEA0JW337M	J	AD	330 µF,6.3V,Electrolytic
C18	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C23,24	RC-EZY106AF1H	J	AB	10 µF,50V,Electrolytic
C25,26	VCTYMN1CX152K	J	AA	0.0015 µF,16V
C27	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C28	VCKYMN1HB101K	J	AA	100 pF,50V
C30	VCKYMN1HB101K	J	AA	100 pF,50V
C32~34	VCKYMN1HB101K	J	AA	100 pF,50V
C35	VCQYKA1HM473J	J	AB	0.047 µF,50V,Mylar
C36	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C37	VCTYPA1CX104K	J	AB	0.1 µF,16V
C38	VCTYMN1CY103N	J	AA	0.01 µF,16V
C39	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C40	VCEAZA0JW227M	J	AC	220 µF,6.3V,Electrolytic
C41	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C42	VCTYMN1CY103N	J	AA	0.01 µF,16V
C44	VCKYMN1HB102K	J	AA	0.001 µF,50V
C48	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C49	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C50	VCCCPA1HH220J	J	AA	22 pF (CH),50V
C51	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C101,102	VCKYMN1HB561K	J	AA	560 pF,50V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C103,104	VCKYMN1HB181K	J	AA	180 pF,50V
C105,106	VCKYMN1HB561K	J	AA	560 pF,50V
C107~110	VCKYMN1HB331K	J	AA	330 pF,50V
C111,112	VCEAZA1EW107M	J	AB	100 µF,25V,Electrolytic
C113,114	VCTYPA1EX333K	J	AA	0.033 µF,25V
C115,116	VCKYMN1HB561K	J	AA	560 pF,50V
C117,118	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C119	VCKYPA1HB222K	J	AA	0.0022 µF,50V
C120	VCTYMN1CX222K	J	AA	0.0022 µF,16V
C121	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C122	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C123,124	VCKYMN1HB271K	J	AA	270 pF,50V
C125,126	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C127,128	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C129,130	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C131,132	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C133	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C134	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C135	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C136	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C137	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C138	VCQPKA2AA822J	J	AA	0.0082 µF,100V,Polypropylene
C139	VCQYKA1HM393K	J	AB	0.039 µF,50V,Mylar
C140	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C141	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C150	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C301	VCTYMN1CY103N	J	AA	0.01 µF,16V
C302	VCKYMN1HB102K	J	AA	0.001 µF,50V
C321	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C323	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C330	VCCSMN1HL150J	J	AA	15 pF,50V
C331	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C332	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C334	VCCCMN1HH220J	J	AA	22 pF (CH),50V
C335	VCKYMN1HB561K	J	AA	560 pF,50V
C338	VCKYMN1HB102K	J	AA	0.001 µF,50V
C340	VCKYMN1HB102K	J	AA	0.001 µF,50V
C341,342	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C345~347	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C348	VCTYMN1EF103Z	J	AB	0.01 µF,25V
C350	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C352	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C355	VCCSMN1HL220J	J	AA	22 pF,50V
C356	VCKYMN1HB102K	J	AA	0.001 µF,50V
C357	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C358	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C361	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C362	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C363	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C364	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C365	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C366	VCKYMN1HB102K	J	AA	0.001 µF,50V
C367,368	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C369	VCCSMN1HL270J	J	AA	27 pF,50V
C370~372	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C373,374	VCTYPA1CX183K	J	AA	0.018 µF,16V
C380	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C384	VCKYMN1HB102K	J	AA	0.001 µF,50V
C385	VCTYMN1CY103N	J	AA	0.01 µF,16V
C386	VCKYMN1HB331K	J	AA	330 pF,50V
C387	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C388	VCKYMN1HB102K	J	AA	0.001 µF,50V
C389	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C391	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C392	VCKYMN1HB102K	J	AA	0.001 µF,50V
C393	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C394	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C395	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C396	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C397	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C398	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C399	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C561	VCKYPA1HB271K	J	AA	270 pF,50V
C562	VCKYMN1HB271K	J	AA	270 pF,50V
C563	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C564,565	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C566	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C567,568	VCTYMN1CX682K	J	AA	0.0068 µF,16V
C569	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C570~572	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C573	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C601	VCEAZA1CW227M	J	AC	220 µF,16V,Electrolytic
C603	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C605,606	VCFYDA1HA154J	J	AB	0.15 µF,50V,Polyester
C607,608	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C609,610	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C611,612	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C613,614	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C615,616	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C617~624	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C625,626	VCTYMN1CX562K	J	AA	0.0056 µF,16V
C635~638	VCKYMN1HB102K	J	AA	0.001 µF,50V
C639	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C640	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C650~652	VCKYPA1HB221K	J	AA	220 pF,50V
C690,691	VCKYMN1HB391K	J	AA	390 pF,50V
C693	VCKYMN1HB102K	J	AA	0.001 µF,50V
C701	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C702	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C703	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C704	VCCSMN1HL150J	J	AA	15 pF,50V
C705	VCCSMN1HL180J	J	AA	18 pF,50V
C706	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C707	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C712	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C714	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C715	VCTYMN1CY103N	J	AA	0.01 µF,16V
C716	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C717	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C718	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C719	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C734,735	VCCSPA1HL221J	J	AA	220 pF,50V
C801	RC-KZ002LAWZZ	J	AE	0.0047 µF,250V,Ceramic
C802	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C803	VCEAZV1VW477M	J	AD	470 µF,35V,Electrolytic
C805	VCEAZV1VW108M	J	AE	1000 µF,35V,Electrolytic
C901,902	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C903,904	RC-EZ0063AWZZ	J	AM	2200 µF,63V,Electrolytic
C905,906	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C907	VCEAZW1VW228M	J	AH	2200 µF,35V,Electrolytic
C908,909	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C910	VCEAZA1HW227M	J	AC	220 µF,50V,Electrolytic
C911,912	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C913	VCEAZA1VW107M	J	AC	100 µF,35V,Electrolytic
C915	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C916	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C918	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C920	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C921	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C923	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C930,931	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
C932,933	VCKYMN1HB102K	J	AA	0.001 µF,50V
C934,935	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C936,937	VCCSMN1HL150J	J	AA	15 pF,50V
C938,939	VCKYMN1HB151K	J	AA	150 pF,50V
C940,941	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C942	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester
C945,946	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C947	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C948	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C949	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C950~953	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C954~961	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C962~965	VCKYPA1HB102K	J	AA	0.001 µF,50V
C967	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C968	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C969	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C970	VCEAZW1CW688M	J	AH	6800 µF,16V,Electrolytic
CT1	VCKZPA1HF103Z	J	AA	0.01 µF,50V
CT21	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
CT22	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CT23	VCCCMN1HH220J	J	AA	22 pF (CH),50V
CT24	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
CT25	VCCCMN1HH220J	J	AA	22 pF (CH),50V
CT26	VCKYMN1HB561K	J	AA	560 pF,50V
CT27~30	VCTYMN1EF223Z	J	AA	0.022 µF,25V
CT31	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
CT32	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic

RESISTORS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
R1,2	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R3	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R4,5	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R6	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R7	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R9	VRD-ST2CD3R3J	J	AA	3.3 ohms,1/6W
R10	VRD-ST2CD273J	J	AA	27 kohms,1/6W
R11	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R12	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R13~17	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R18	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R19	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R20	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R22	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R23	VRD-MN2BD221J	J	AA	220 ohms,1/8W
R24,25	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R26,27	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R28,29	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R30	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R31~38	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R39,40	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R41	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R42	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R43	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R44	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R45,46	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R47	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R49	VRD-ST2EE1R0J	J	AA	1 ohm,1/4W
R101,102	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R111	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R112	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R113,114	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R115,116	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R117,118	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R119,120	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R121,122	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R123,124	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R125	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R126,127	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R128,129	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R130,131	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R132,133	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R134,135	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R136,137	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R138	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R139	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R140	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R141	VRD-RT2HD472J	J	AA	4.7 kohms,1/2W
R142	VRD-ST2CD820J	J	AA	82 ohms,1/6W
R143	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R144	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R145	VRD-ST2CD4R7J	J	AA	4.7 ohms,1/6W
R146,147	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R148	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R149	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R336	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R344	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R345	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R346	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R347	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R348	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R349	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R350	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R358	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R361,362	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R363,364	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R365	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R369	VRD-MN2BD150J	J	AA	15 ohms,1/8W
R370	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R372~374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R377	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R378	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R384	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R386	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R387	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R388	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R391,392	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R393	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R395	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R399	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R561	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R562	VRD-MN2BD824J	J	AA	820 kohms,1/8W
R563	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R565	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R566	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R567	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R568	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R569	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R570	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R571	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R572	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R573	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R574	VRD-MN2BD105J	J	AA	1 Mohm,1/8W
R575	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R576	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W
R577	VRD-MN2BD154J	J	AA	150 kohms,1/8W
R578	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R579	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R580	VRD-MN2BD184J	J	AA	180 kohms,1/8W
R601~603	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R604,605	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R606,607	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R608,609	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R610,611	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R612,613	VRD-MN2BD391J	J	AA	390 ohms,1/8W
R614,615	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R616	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R617	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R618,619	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R620,621	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R622,623	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R690,691	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R692,693	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R702~704	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R705~707	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R708~712	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R713~717	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R718~721	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R724,725	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R726~728	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R729,730	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R731	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R732,733	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R734~736	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R737	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R738	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R739,740	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R742~745	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R746~748	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R749~751	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R752	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R756	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R758~760	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R761	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R762	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R765	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R766~768	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R770	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R771	VRD-MN2BD103J	J	AA	10 kohm,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R772	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R773	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R774	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R777~779	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R781	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R782	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R783	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R786	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R788	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R801	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R802	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R803	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R804	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R901,902	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R903	VRD-RT2HD332J	J	AA	3.3 kohms,1/2W
R904	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R905	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R906	VRD-ST2CD100J	J	AA	10 ohm,1/6W
R907	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R908	VRD-ST2EE561J	J	AA	560 ohms,1/4W
R909	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R930	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R931	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R932,933	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R934	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R935	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R936,937	VRD-MN2BD821J	J	AA	820 ohms,1/8W
R938,939	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R940,941	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R942	VRD-MN2BD223J	J	AA	22 kohms,1/8W
⚠ R943,944	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R945~948	VRN-VV3DAR22J	J	AC	0.22 ohms,2W
R949,950	VRN-VV3AAR10J	J	AB	0.1 ohm,1W
R951	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R952	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R953	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R954	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R955~957	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R958,959	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R960~963	VRD-ST2EE6R8J	J	AA	6.8 ohms,1/4W
R967,968	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R969	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
R970	VRD-RT2HD102J	J	AA	1 kohm,1/2W
R971	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R972	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R973	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R977,978	VRD-ST2EE470J	J	AA	47 ohms,1/4W
R981,982	VRD-RT2HD681J	J	AA	680 ohms,1/2W
R983	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R984	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R986	VRD-RT2HD681J	J	AA	680 ohms,1/2W
R988	VRD-RT2HD681J	J	AA	680 ohms,1/2W
RD01	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD02	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD03	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD04	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD05	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD06	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RD07	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD08	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RD09	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RD10	VRD-MN2BD183J	J	AA	18 kohms,1/8W
RD11	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RD12	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RD13	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD14	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD15	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RD16	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RD17	VRD-MN2BD184J	J	AA	180 kohms,1/8W
RD18	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD19	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD20	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RD21	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD22	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD23	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RD24	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD25	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RD26	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RD27	VRD-MN2BD183J	J	AA	18 kohms,1/8W
RD28	VRD-ST2CD333J	J	AA	33 kohms,1/6W
RD29	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RD30	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RT21	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RT22,23	VRD-ST2EE391J	J	AA	390 ohms,1/4W
RT24	VRD-MN2BD563J	J	AA	56 kohms,1/8W
RT25	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RT26	VRD-MN2BD563J	J	AA	56 kohms,1/8W
RT27~30	VRD-MN2BD102J	J	AA	1 kohm,1/8W

OTHER CIRCUITRY PARTS

BI4/CNS4	QCNWN1572AWZZ	J	AF	Connector Ass'y,6/6Pin
BI601/CNS601	QCNWN1842AWZZ	J	AG	Connector Ass'y,6/6Pin
BI701/CNS8	QCNWN1843AWZZ	J	AH	Connector Ass'y,9/9Pin
BI803/CNS803	QCNWN1879AWZZ	J	AF	Connector Ass'y,6/6Pin
BI902/CNS902	QCNWN1875AWZZ	J	AH	Connector Ass'y,10/10Pin
CNP1	QCNCM704GAWZZ	J	AC	Plug,7Pin
CNP2	QCNCM704HAWZZ	J	AC	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP4	QCNCM705FAFZZ	J	AB	Plug,6Pin
CNP7	92LCONE6P53254	J	AC	Plug,6Pin
CNP8	92LCONE9P53254	J	AD	Plug,9Pin
CNP101	QCNCM705CAFZZ	J	AA	Plug,3Pin
CNP102	QCNCM705GAFZZ	J	AB	Plug,7Pin
CNP302	92LCONE2P5268	J	AB	Plug,2Pin
CNP701	QCNCWZX28AWZZ	J		Socket,28Pin
CNP803	QCNCM705FAFZZ	J	AB	Plug,6Pin
CNP902	92LCONEAP5267	J	AC	Plug,10Pin
CNP971	92LCONE2P53253	J	AB	Plug,2Pin
CNP981	92LCONE5P52287	J	AC	Plug,5Pin
CNS1A/B	QCNWN1537AWZZ	J	AG	Connector Ass'y,7/7Pin
CNS2A/B	QCNWN1538AWZZ	J	AG	Connector Ass'y,8/8Pin
CNS3A/B	QCNWN1539AWZZ	J	AE	Connector Ass'y,6/6Pin
CNS701	QCNCWZF28AWZZ	J		Socket,28Pin
CNS702	QCNCWZY08AWZZ	J	AC	Socket,8Pin
CNS971	QCNWN1389AWZZ	J	AC	Connector Ass'y,2Pin
⚠ F901,902	QFS-D402CAWNI	J	AC	Fuse,T4A L 250V
⚠ F903,904	QFS-D202CAWNI	J	AC	Fuse,T2A L 250V
FE301	RTUNS0012AWZZ	J	AV	FM Front End
FFC701	QCNWN1877AWZZ	J	AH	Flat Cable,28Pin
FFC702	QCNWN1838AWZZ	J	AD	Flat Cable,8Pin
FL701	VVKBJ11LM02T1	J	BC	FL Display
FW981	QCNWN1836AWZZ	J	AD	Flat Wire,5Pin
JK690	QSOCJ0219AWZZ	J	AD	Jack,Video/AUX In
JK701	QJAKM0004AWZZ	J	AK	Jack,Headphones
LG1	QLUGP0001AWZZ	J	AC	Lug
LUG1,2	92LLUG1746A	J	AA	Lug
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
M3	92LMEN7E6Y	J	AR	Motor with Worm Pulley [T/T Up Down Loading]
M901	RMOTV0027AWZZ	J	AM	Motor,Air Cooling Fan
⚠ RL801	RRLYD0011AWZZ	J	AE	Relay
RL914	RRLYD0016AWZZ	J	AH	Relay
RX701	VHLN63H380A-1	J	AK	Remote Sensor,N63H380A
SO302	QTANC0101AWZZ	J	AF	Terminal,FM Antenna
SO901	QTANA0417AWZZ	J	AE	Terminal,Speaker
SW1	SWMPU10780MLB	J	AH	Switch,Push Type [Open/Close]
SW2	SWMPU11470MLB	J	AE	Switch,Push Type [Clamp]
SW3	SWMPU11470MLB	J	AE	Switch,Push Type [Disc Number]
SW4	QSWF9001AW01	J	AD	Switch,Push Type [Pickup In]
SW701	92LSWICHT1663T	J	AC	Switch,Key Type [On/Stand-by]
SW702	92LSWICHT1663T	J	AC	Switch,Key Type [Clock]
SW703	92LSWICHT1663T	J	AC	Switch,Key Type [Timer]
SW704	92LSWICHT1663T	J	AC	Switch,Key Type [RTY]
SW705	92LSWICHT1663T	J	AC	Switch,Key Type [EON]
SW706	92LSWICHT1663T	J	AC	Switch,Key Type [ASPM]
SW707	92LSWICHT1663T	J	AC	Switch,Key Type [Display Mode]
SW712	92LSWICHT1663T	J	AC	Switch,Key Type [Disc Skip]
SW713	92LSWICHT1663T	J	AC	Switch,Key Type [Open/Close]
SW714	92LSWICHT1663T	J	AC	Switch,Key Type [Dimmer]
SW715	92LSWICHT1663T	J	AC	Switch,Key Type [X-Bass]
SW716	92LSWICHT1663T	J	AC	Switch,Key Type [Equalizer]
SW717	92LSWICHT1663T	J	AC	Switch,Key Type [Volume Up]
SW718	92LSWICHT1663T	J	AC	Switch,Key Type [Volume Down]
SW720	92LSWICHT1663T	J	AC	Switch,Key Type [CD]
SW721	92LSWICHT1663T	J	AC	Switch,Key Type [Tape]
SW722	92LSWICHT1663T	J	AC	Switch,Key Type [Tuning Down]
SW723	92LSWICHT1663T	J	AC	Switch,Key Type [Memory/Set]
SW724	92LSWICHT1663T	J	AC	Switch,Key Type [Fast Rewind]
SW725	92LSWICHT1663T	J	AC	Switch,Key Type [Fast Forward]
SW726	92LSWICHT1663T	J	AC	Switch,Key Type [Play]
SW727	92LSWICHT1663T	J	AC	Switch,Key Type [Stop]

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
SW729	92LSWICHT1663T	J	AC	Switch,Key Type [Rec/Pause]
SW730	92LSWICHT1663T	J	AC	Switch,Key Type [Tuning Up]
SW731	92LSWICHT1663T	J	AC	Switch,Key Type [Video]
SW732	92LSWICHT1663T	J	AC	Switch,Key Type [Tuner]

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0080AWZZ	J	AC	Rail,Guide
304	NSFTM0020AWFW	J	AD	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
⚠ 306	92LHPC1LXASY	J	BD	Pickup Unit Ass'y
306- 1	————		—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×3.8×0.25mm
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	92LCAB3562AASY	J		Front Panel Ass'y [For CD-BA250H]
201	92LCAB3566AASY	J		Front Panel Ass'y [For CD-BA2600H]
201- 1	————		—	Front Panel (Not Replacement Item)
201- 2	GDORF0099AWSA	J	AE	Holder,Cassette [Tape 1]
201- 3	GDORF0100AWSA	J	AE	Holder,Cassette [Tape 2]
201- 4	GCOVA1349AWSA	J	AG	Cover,Cassette [Tape 1 for CD-BA250H]
201- 4	GCOVA1349AWSB	J	AH	Cover,Cassette [Tape 1 for CD-BA2600]
201- 5	GCOVA1350AWSA	J	AG	Cover,Cassette [Tape 2 for CD-BA250H]
201- 5	GCOVA1350AWSB	J	AH	Cover,Cassette [Tape 2 for CD-BA2600]
201- 6	HDECQ0686AWSA	J	AE	Panel,Cassette [Tape 1]
201- 7	HDECQ0687AWSA	J	AE	Panel,Cassette [Tape 2]
201- 8	HDECQ0714AWSA	J	AH	Panel,Amp. [For CD-BA250H]
201- 8	HDECQ0747AWSA	J	AK	Panel,Amp. [For CD-BA2600H]
201- 9	JKNBZ0808AWSA	J	AE	Button,Power [For CD-BA250H]
201- 9	JKNBZ0808AWSB	J	AE	Button,Power [For CD-BA2600H]
201-10	JKNBZ0778AWSA	J	AF	Button,Dimmer/Tuning [For CD-BA250H]
201-10	JKNBZ0778AWSB	J	AG	Button,Dimmer/Tuning [For CD-BA2600]
201-11	JKNBZ0779AWSA	J	AF	Button,Function
201-12	HDECQ0690AWSA	J	AC	Volume Ring
201-13	JKNBZ0780AWSA	J	AF	Button,Disc Control [For CD-BA250H]
201-13	JKNBZ0780AWSB	J	AF	Button,Disc Control [For CD-BA2600H]
201-14	JKNBZ0781AWSA	J	AG	Button,Center Operation
201-15	GCOVA1351AWSA	J	AB	Cover,Operation LED A
201-16	MLIFP0008AWZZ	J	AD	Damper
201-17	MSPRD0092AWFJ	J	AB	Spring,Cassette [Tape 1]
201-18	MSPRD0093AWFJ	J	AB	Spring,Cassette [Tape 2]
201-19	JKNBZ0783AWSA	J	AF	Button,X-Bass/Equalizer
201-20	PSHEP0063AWZZ	J	AB	Filter,Remote Sensor
201-21	LHLDZ1328AWZZ	J	AC	Holder,Cassette Lock
201-22	MSPRC0029AWFJ	J	AB	Spring,Cassette Lock
201-23	MLOKC0006AWZZ	J	AB	Lock Lever Cassette [Tape 1]
201-24	MLOKC0007AWZZ	J	AB	Lock Lever Cassette [Tape 2]
201-25	JKNBZ0805AWSA	J	AE	Button,Volume
201-26	92LBADGE1671A	J	AC	Badge,SHARP
201-27	JKNBZ0803AWSA	J	AD	Button,RDS
202	92LCAB3561BASY	J		Side Panel Ass'y,Left [For CD-BA250H]
202	92LCAB3565BASY	J		Side Panel Ass'y Left [For CD-BA2600H]
202- 1	————		—	Side Panel,Left (Not Replacement Item)
202- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
203	92LCAB3561CASY	J		Side Panel Ass'y,Right [For CD-BA250H]
203	92LCAB3565CASY	J		Side Panel Ass'y Right [For CD-BA2600H]
203- 1	————		—	Side Panel,Right (Not Replacement Item)
203- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
204	GCAB-1194AWSA	J	AP	Cabinet,Top [For CD-BA250H]
204	GCAB-1194AWSB	J	AP	Cabinet,Top [For CD-BA2600H]
206	GCOVA1348AWSA	J	AH	Cover,CD Tray
207	GITAR0732AWSA	J	AM	Rear Panel [CD-BA250H Except for U.K.]
207	GITAR0733AWSA	J		Rear Panel [CD-BA250H for U.K.]
207	GITAR0734AWSA	J	AM	Rear Panel [For CD-BA2600H Only]
211	LANGK0252AWFW	J	AE	Bracket,Fan Support
212	LBSHC0002AWZZ	J	AD	Bushing,AC Power Supply Cord
213	LCHSM0122AWFW	J	AN	Chassis,Main
214	LHLDZ1332AWZZ	J	AD	Holder,FL Display
218	NFANP0001AWZZ	J	AD	Rotary Fan
219	PCUSG0022AWZZ	J	AB	Cushion,Leg
220	PRDAR0188AWFW	J	AR	Heat Sink,Main
⚠ 222	QACCB0009AW00	J	AL	AC Power Supply Cord [CD-BA250H for U.K. Only]
⚠ 222	QACCE0010AW00	J	AK	AC Power Supply Cord
223	QCNWN1844AWZZ	J	AC	Lug Wire
⚠ 224	QFSHD0001AWZZ	J	AB	Holder,Fuse
225	92LBE231616	J	AD	Belt
226	92LCSPR1431C	J	AA	Spring,Ring
227	92LEVA0330702	J	AD	Velvet Carpet,Chassis
228	92LMAG0104302	J	AE	Magnet
229	92LMT0304302	J	AB	Plate,Metal
230	92LNBAND1318A	J	AA	Nylon Band,80mm
231	92LNM0305401	J	AB	Velvet Carpet
232	92LPT0303002	J	AB	Roller
233	92LPT0304303	J	AB	Lever,Stop
234	92LPT0304304	J	AB	Stopper
235	92LPT0304305	J	AE	Lever,Lock
236	92LPT0304306	J	AG	Stabilizer
237	92LPT0304307	J	AC	Support,Cam
238	92LPT0304308	J	AB	Lock Gear Pin
239	92LPT0304309	J	AB	Cap,Pulley Stopper
240	92LPT0305413	J	AG	Cam Gear Lower
241	92LPT0309506	J	AD	Gear,Turntable Drive
242	92LPT0309507	J	AD	Gear,Open/Close Drive
243	92LPT0309508	J	AD	Gear,Planet
244	92LPT0309509	J	AD	Gear,Drive
245	92LPT0309510	J	AE	Gear,Pulley
246	92LPT0309511	J	AD	Gear,Middle
247	92LPT0311101	J	AB	Lever,Clamp
248	92LPT0311102	J	AC	Lever,Disc
249	92LPT0312005	J	AL	Gear,Cam
250	92LPT0320201	J	AE	Support,Stabilizer
251	92LPT0330301	J	AU	Chassis,Loading
252	92LPT0330803	J	AK	CD,Chassis
253	92LPT0331003	J	AT	Shassis,Slide
254	92LPT0331105	J	AM	Turntable
255	92LSP0304303	J	AB	Spring,Stopper
256	92LSP0304305	J	AB	Spring,Lock
257	92LSP0304306	J	AB	Spring,Lock Gear
258	KMECB0018AWZZ	J	BE	Tape Mechanism Ass'y
258- 1	92PF513-860	J		Head Plate Block [Tape 2]
258- 2	92PF525-338	J		Motor with Pulley [Tape]
258- 3	92PF567-649	J		Tape Mechanism PWB Ass'y
258- 4	92PFF19U-12	J		Belt,Main [Tape 2]
258- 5	92PF514-135	J	AL	Pinch Roller
258- 6	92PF19S-31	J		Belt,FF/REW [Tape 2]
258- 7	92PFF19N-11	J		Belt,Main [Tape 1]
258- 8	92PF522-061	J		Clutch Ass'y Block [Tape 1]
258- 9	92PFF19S-52	J		Belt,FF/REW [Tape 1]
258-10	92PF513-861	J		Head Plate Block [Tape 1]
258-11	92PF522-063	J		Clutch Ass'y Block [Tape 2]
259	PCOVQ3002AWZZ	J	AL	Fan Cover
260	92LCAUT1706A1	J	AC	Label,Class 3
261	92LCAUT1706B	J	AA	Label,Laser
262	LANGK0282AWPW	J		Bracket, PWB Support
601	LX-BZ2222AXZZ	J	AB	Screw,Special
602	XJBSD30P12000	J	AA	Screw,ø3×12mm
603	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
604	XEBSD26P08000	J	AA	Screw,ø2.6×8mm

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
605	XBBSD20P04000	J	AA	Screw,ø2×4mm
606	XEBSD30P10000	J	AA	Screw,ø3×10mm
607	XEBSD30P12000	J	AA	Screw,ø3×12mm
608	XESSD30P10000	J	AA	Screw,ø3×10mm
610	XJBSD30P10000	J	AA	Screw,ø3×10mm
611	XJBSD30P14000	J	AA	Screw,ø3×14mm
613	XJSSD30P10000	J	AA	Screw,ø3×10mm
614	92LSC0308MBZI	J	AB	Screw,ø3×8mm
615	92LSC0308RBZI	J	AB	Screw,ø3×8mm
616	XHBSD40P08000	J	AA	Screw,ø4×8mm

ACCESSORIES/PACKING PARTS

	TLABE0495AWZZ	J		Label,Bar Code [CD-BA250H Except for U.K.]
	TLABE0496AWZZ	J		Label,Bar Code [For CD-BA2600H Only]
	TLABZ0604AWZZ	J	AB	Label,Energy [Except for U.K.]
1	QANTL0008AWZZ	J	AH	AM Loop Antenna
2	92LFANT1535A	J	AF	FM Antenna
3	TINSE0369AWZZ	J	AF	Operation Manual [For U.K.]
3	TINSK0685AWZZ	J		Operation Manual [Except for U.K.]
4	TINSE0373AWZZ	J	AC	Quick Guide [CD-BA250H For U.K.Only]
5	TGAN-3170UMZZ	J	AE	Warranty Card [CD-BA250H For U.K.Only]
6	TCAUZ0057AWZZ	J		Sheet,Notice
7	TLABN0112AWZZ	J	AA	Label,Serial Number
8	TLABZ0605AWZZ	J	AB	Label,Saving Energy
9	TLABZ0889AWZZ	J		Label,Feature [Tape 1 for U.K.]
9	TLABZ0890AWZZ	J		Label,Feature [Tape 1 Except for U.K.]
10	TLABZ0873AWZZ	J	AC	Label,Feature [Tape 2]
11	92LBAG1460C1	J	AB	Polyethylene Bag,Accessories
12	SPAKC1141AWZZ	J		Packing Case [CD-BA250H Except for U.K.]
12	SPAKC1142AWZZ	J	AW	Packing Case [CD-BA250H For U.K.]
12	SPAKC1226AWZZ	J		Packing Case [For CD-BA2600H Only]
13	SPAKA0300AWZZ	J	AM	Packing Add.
14	SPAKZ0771AWZZ	J	AF	Bottom Pad
15	SPAKZ0773AWZZ	J		Top Pad
16	SPAKP0013AWZZ	J	AC	Polyethylene Bag,Unit
17	92LBAG1770A	J	AB	Polyethylene Bag,AC Power Supply Cord
18	RRMCG0264AWSA	J	AQ	Remote Control
18- 1	GFTAB1022AWSB	J	AK	Battery Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~3	92LPWB3562MANS	J	—	Main/Power/Transformer (Combined Ass'y)
PWB-B1,2	92LPWB3562DPLS	J	—	Display/Headphones (Combined Ass'y)
PWB-C	92LPWB3552CDUS	J	—	CD Servo
PWB-D	92PF567-649	J	—	Tape Mechanism
PWB-E	92LPC99C017	J	AE	CD Loading Motor (PWB Only)
PWB-F	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)

OTHER SERVICE PART

	UDSKA0004AFZZ	J	AZ	CD Pickup Lens Cleaner

CP-BA250H/CP-BA2600H

SPEAKER BOX PARTS

901	GBOXS6002AWSB	J	BB	Speaker Box Ass'y [For CP-BA250H]
901	GBOXS6003AWSB	J	BB	Speaker Box Ass'y [For CP-BA2600H]
901-1	QCNWN1833AWZZ	J		Speaker Cord Ass'y (With Capacitor C1,2)
902	CWAKP1045AWSC	J	AR	Net Frame Ass'y [For CP-BA250H]
902	CWAKP1045AWSD	J	AR	Net Frame Ass'y [For CP-BA2600H]
903	HPNLS1020AWSA	J	AW	Front Panel [For CP-BA250H]
903	HPNLS1020AWSB	J	AW	Front Panel [For CP-BA2600H]
904	LHLDZ8001AWSA	J	AD	Catching Holder [For CP-BA250H]
904	LHLDZ8001AWSB	J	AD	Catching Holder [For CP-BA2600H]
906	PCUSG0022AWZZ	J	AB	Foot Cushion
907	TSPC-0835AWZZ	J	AD	Label,Specifications [For CP-BA250H]
907	TSPC-0839AWZZ	J		Label,Specifications [For CP-BA2600H]
908	XJBSD40P12000	J	AA	Screw,ø4×12mm
909	XJBSD30P10000	J	AA	Screw,ø3×10mm
SP1,2	RSPA10007AW6W	J	AX	Woofer
SP3,4	RSPA00008AW6T	J	AP	Tweeter

PACKING PARTS

1	SPAKA0301AWZZ	J	AK	Packing Add.
2	SSAKH0051AWZZ	J	AC	Polyethylene Bag,Speaker

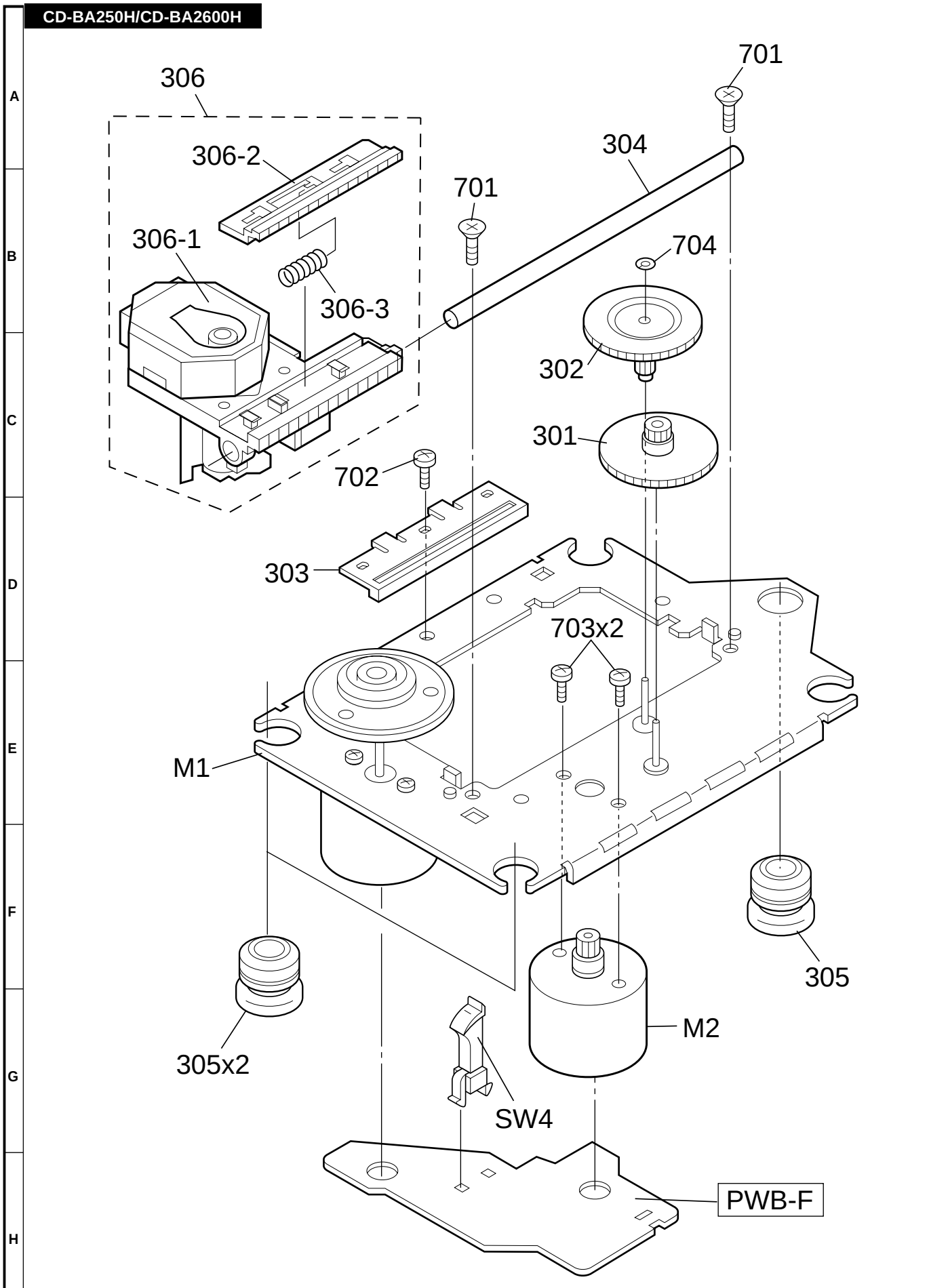


Figure 7 CD MECHANISM EXPLODED VIEW

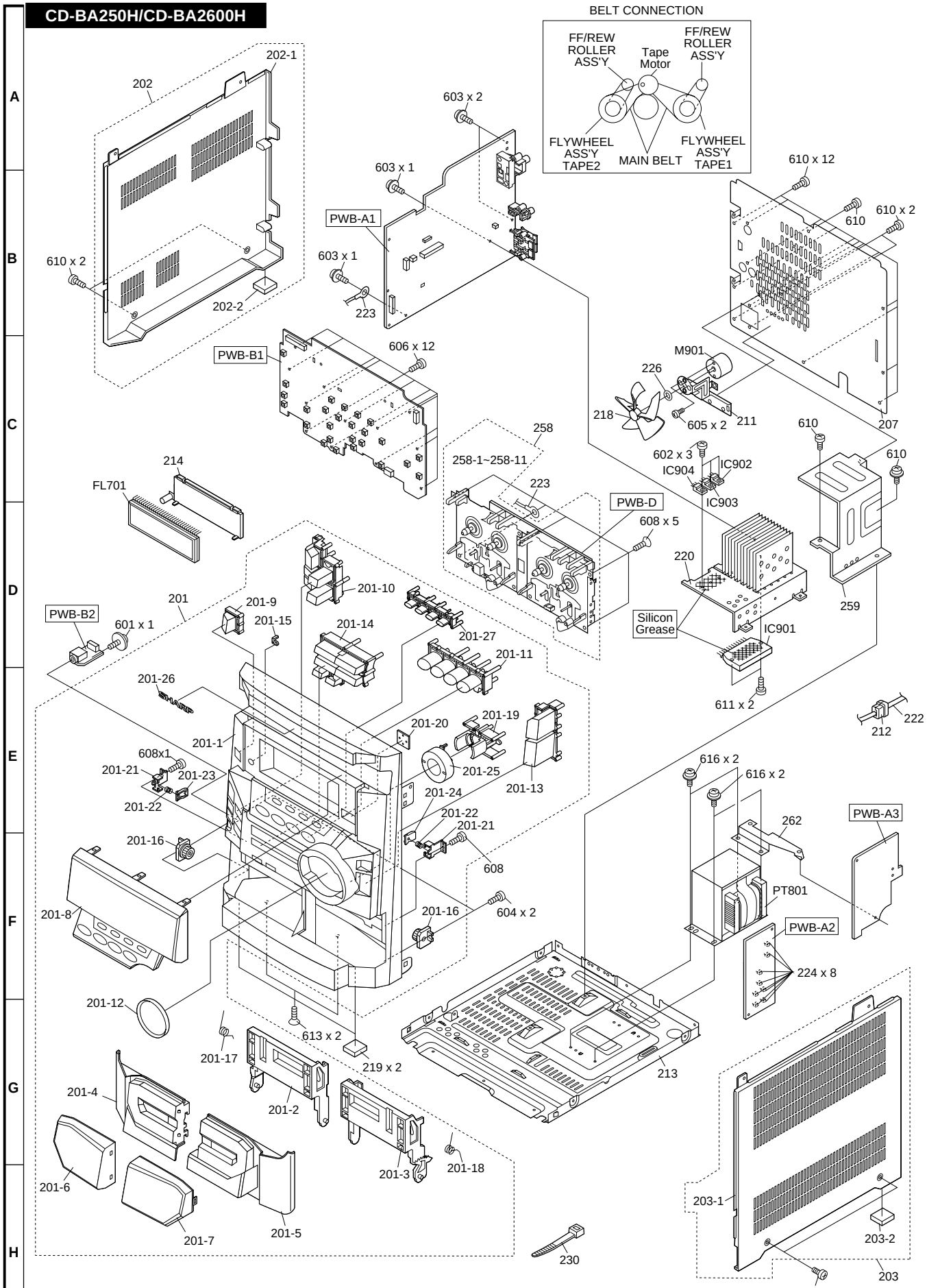


Figure 8 CABINET EXPLODED VIEW (1/2)

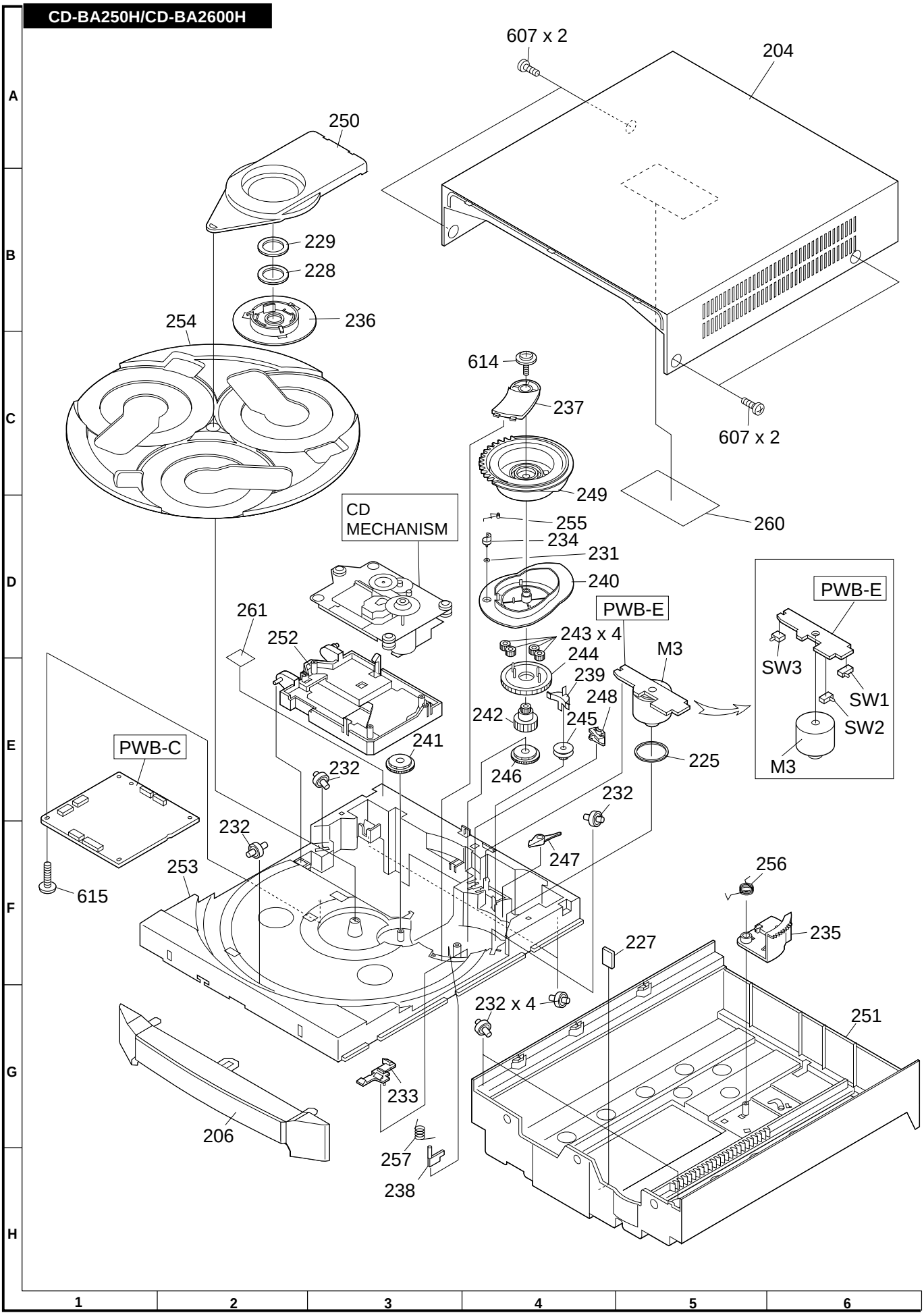


Figure 9 CABINET EXPLODED VIEW (2/2)

CP-BA250H/CP-BA2600H

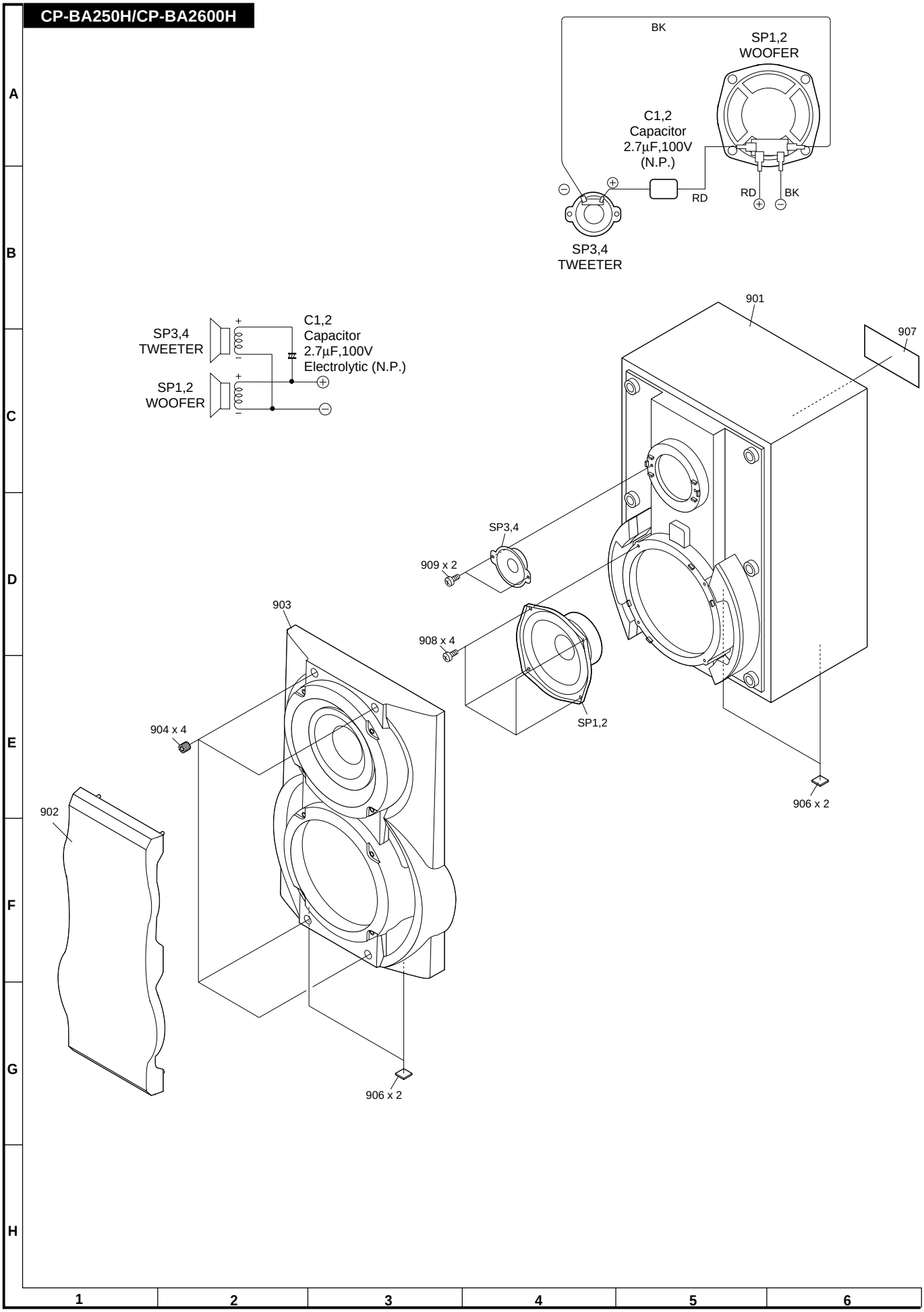


Figure 10 SPEAKER EXPLODED VIEW

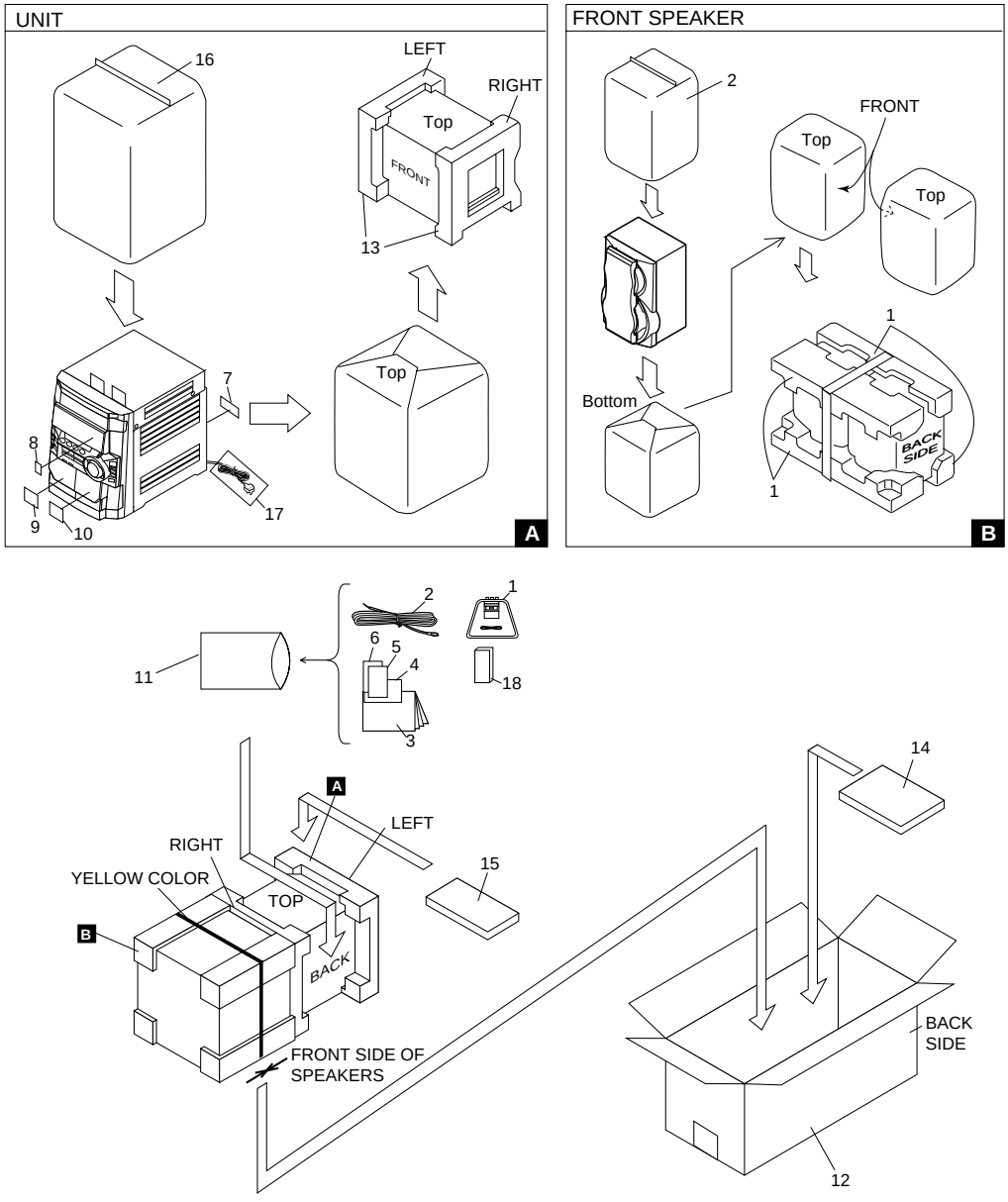
PACKING METHOD (CD-BA250H FOR U.K. ONLY)

CD-BA250H

1. AM Loop Antenna	QANTL0008AWZZ
2. FM Antenna	92LFANT1535A
3. Operation Manual	TiNSE0369AWZZ
4. Quick Guide	TiNSE0373AWZZ
5. Warranty Card	TGAN-3170UMZZ
6. Sheet, Notice	TCAUZ0057AWZZ
7. Label, Serial Nimber	TLABN0112AWZZ
8. Label, Saving Energy	TLABZ0605AWZZ
9. Label, Feature, Tape1	TLABZ0889AWZZ
10. Label, Feature, Tape2	TLABZ0873AWZZ
11. Polyethylene Bag, Accessories	92LBAG1460C1
12. Packing Case	SPAKC1142AWZZ
13. Packing Add.	SPAKA0300AWZZ
14. Bottom Pad	SPAKZ0771AWZZ
15. Top Pad	SPAKZ0773AWZZ
16. Polyethylene Bag, Unit	SPAKP0013AWZZ
17. Polyethylene Bag, AC Power Supply Cord	92LBAG1770A
18. Remote Control	RRMCG0264AWSA

CP-BA250H

1. Packing Add.	SPAKA0301AWZZ
2. Polyethylene Bag, Speaker	SSAKH0051AWZZ



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